

SPREAD BAGELRY

6 WEST STATE STREET
SAVANNAH, GEORGIA 31401

PIN # 20004 44002

100% CONSTRUCTION SET

MARCH 2ND, 2023



PROJECT TEAM:

OWNER:	SPREAD BAGELRY JAMIE SCHROTBERGER (E) JAMIE@SPREADBAGELRY.COM
ARCHITECT:	LYNCH ASSOCIATES ARCHITECTS, PC ANDREW LYNCH, AIA 200 EAST 31ST STREET SAVANNAH, GEORGIA 31401 (P) 912.349.5116 (E) ALYNCH@LYNCHARCH.COM
MECHANICAL/ ELECTRICAL/ PLUMBING ENGINEER:	METHOD ENGINEERING GROUP CHRISTOPHER SHAFFER, PE 2 EAST BRYAN STREET, SUITE 1500C (P) 912.963.1611 (E) CSHAFFER@METHODEG.COM

La₂

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SAVANNAH, GEORGIA 31401

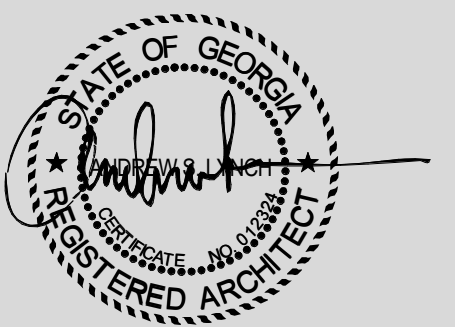
JAMIE SCHROTBERGER
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Revisions

No	Date	Description

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Project No.	2228.00
Drawing No.	

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GRAPHIC MATERIAL LEGEND			
	ALUMINUM		PLASTER OR STUCCO
	BRICK (CUT)		STEEL
	CONCRETE		SAND
	CONCRETE MASONRY UNITS		WOOD BLOCKING
	EARTH		WOOD SHIM
	EXISTING MATERIAL		WOOD - FINISHED
	GRAVEL		
	GROUT		
	GYPSUM BOARD		
	RIGID, BATT, OR SPRAY FOAM INSULATION		
	MEDIUM DENSITY FIBERBOARD OR PARTICLE BOARD		
	WATERPROOFING		
	PLYWOOD		

- GENERAL PROJECT NOTES**
- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE 2018 INTERNATIONAL BUILDING CODE, 2018 LIFE SAFETY CODE, NFPA 10, CITY OF SAVANNAH CHATHAM COUNTY HEALTH DEPARTMENT, CITY OF SAVANNAH FIRE DEPARTMENT REGULATIONS, UTILITY COMPANY REQUIREMENTS, ADA STANDARDS FOR ACCESSIBLE DESIGN, AND THE BEST TRADE PRACTICES.
 - BEFORE COMMENCING WORK, THE CONTRACTOR SHALL FILE ALL REQUIRED CERTIFICATES OF INSURANCE WITH THE DEPARTMENT OF BUILDINGS, OBTAIN ALL REQUIRED PERMITS, AND PAY ALL FEES REQUIRED BY THE CITY OF SAVANNAH IF REQUIRED.
 - THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO COMMENCING WORK, AND SHALL REPORT ANY DISCREPANCIES BETWEEN DRAWINGS AND FIELD CONDITIONS TO THE ARCHITECT.
 - ALL DIMENSIONS TO FACE OF STUD/STRUCTURE FOR INTERIOR AND EXTERIOR WALLS PARTITIONS UNLESS OTHERWISE NOTED.
 - THE CONTRACTOR IS NOT TO SCALE DRAWINGS OR DETAILS. ONLY WRITTEN DIMENSIONS ARE TO BE USED.
 - MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER CONSTRUCTION OF ANY PART OF THE WORK SHALL BE INCLUDED AS IF THEY WERE INDICATED IN THE DRAWINGS.
 - THE CONTRACTOR SHALL COORDINATE ALL WORK PROCEDURES WITH REQUIREMENTS OF LOCAL AUTHORITIES.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL CONDITIONS AND MATERIALS WITHIN THE PROPOSED CONSTRUCTION AREA. THE CONTRACTOR SHALL DESIGN AND INSTALL ADEQUATE SHORING AND BRACING FOR ALL STRUCTURAL OR REMOVAL TASKS. THE CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR ANY DAMAGE OR INJURIES CAUSED BY OR DURING THE EXECUTION OF THE WORK.
 - EACH CONTRACTOR SHALL LAY OUT HIS OWN WORK, AND SHALL PROVIDE ALL DIMENSIONS REQUIRED FOR OTHER CONTRACTORS (PLUMBING, ELECTRICAL, MECHANICAL, FIRE PROTECTION).
 - PLUMBING AND ELECTRICAL WORK SHALL BE PERFORMED BY PERSONS LICENSED IN THEIR TRADES, WHO SHALL ARRANGE FOR AND OBTAIN INSPECTIONS AND REQUIRED SIGN-OFFS.
 - EACH CONTRACTOR SHALL DO CUTTING, PATCHING, REPAIRING AS REQUIRED TO PERFORM ALL OF THE WORK INDICATED ON THE DRAWINGS, AND ALL OTHER WORK THAT MAY BE REQUIRED TO COMPLETE THE JOB IN EACH PRIME CONTRACT.
 - ALL MATERIALS, ASSEMBLIES, FORMS AND METHODS OF CONSTRUCTION AND SERVICE EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF THE CITY OF SAVANNAH AND THE 2018 INTERNATIONAL BUILDING CODE.
 - EACH CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF THE OTHER CONTRACTORS AND SUPPLIERS.
 - DUCTS, PIPES AND CONDUITS PASSING THROUGH RATED CONSTRUCTION SHALL HAVE SPACES NOT EXCEEDING 1/2 INCH PACKED WITH MINERAL WOOL, AND CLOSED OFF WITH CLOSE FITTING METAL ESCUTCHEONS. AGGREGATE AREA OF SUCH OPENINGS SHALL NOT EXCEED 25 SQUARE INCHES IN ANY 100 SQ. FT. OF WALL OR FLOOR AREA UNLESS PROTECTED BY RATED SELF-CLOSING DEVICES.
 - CONCEALED SPACES WITHIN PARTITIONS, WALLS, FLOORS, ROOFS, STAIRS, FURRING, PIPE SPACES, COLUMN ENCLOSURES, ECT., SHALL BE FIRESTOPPED (EXCEPT WHERE CONCEALED SPACE IS SPRINKLERED) NON-COMBUSTIBLE MATERIAL THAT CAN BE SHAPED, FITTED AND PERMANENTLY SECURED IN POSITION. FIRE SEAL SHALL MATCH RATING OF WALL.
 - CONDUITS IN FIRE-RELATED PARTITIONS SHALL NOT EXCEED 3/4 INCH DIAMETER. OUTLETS IN SUCH PARTITIONS SHALL BE BACKED UP WITH APPROVED MATERIALS MEETING U.L. REQUIREMENTS.
 - PENETRATION OF OPENINGS IN WALLS, PARTITIONS OR FLOORS, FOR PIPE SLEEVES, FIRE EXTINGUISHERS, TOILET ACCESSORIES, ELECTRIC DEVICES, ECT., SHALL BE PLACED, SEALED, LINED OR OTHERWISE ISOLATED TO MAINTAIN THE REQUIRED S.T.C. RATING.
 - ALL WOOD BLOCKING AND MISCELLANEOUS FRAMING TO BE FIRE RETARDANT FOR TYPE 3 CONSTRUCTION.
 - PROVIDE CONCRETE SPLASH BLOCKS AT ALL DOWN SPOUT TERMINATIONS NOT TIED TO STORM DRAINS.

BUILDING CODE SUMMARY

A. PROJECT INFORMATION

Name of Project: SPREAD BAGELRY
 Address: 6 W. STATE STREET, SAVANNAH, GEORGIA ZIP Code: 31401
 Proposed Use: RESTAURANT
 Owner/Authorized Agent: JAMIE SCHROTBERGER
 Phone: _____ Email: JAMIE@SPREADBAGELRY.COM

Owned by: City/County Private State
 Code Enforcement Jurisdiction: City Savannah County State

B. PROJECT SUMMARY

Building description: GROUND FLOOR TENANT BUILD OUT IN AN EXISTING FOUR STORY BUILDING, TYPE III-B, SPRINKLERED.

Scope of work details:
 THIS PROJECT INCLUDES A TENANT BUILD OUT FOR AN ASSEMBLY OCCUPANCY WITH NEW INTERIOR CONSTRUCTION INCLUDING NEW WALLS, CEILINGS, DOORS, KITCHEN, PLUMBING, ELECTRICAL AND MECHANICAL.

G. ALLOWABLE AREA/OCCUPANCY CLASSIFICATION

OCCUPANCY:
 Assembly (IBC 303) A-1 A-2 A-3 A-4 A-5
 Business (IBC 304) B
 Educational (IBC 305) E
 Factory (IBC 306) F-1 Moderate F-2 Low
 Hazardous (IBC 307) H-1 Detonable H-2 Deflag. H-3 Combust. H-4 Health H-5 HPM
 Institutional (IBC 308) I-1 I-2 I-3 I-4
 L 2 3 4 5
 Mercantile (IBC 309) M
 Residential (IBC 310) R-1 R-2 R-3 R-4
 Storage (IBC 311) S-1 Moderate S-2 Low High-piled
 Parking Garage Open Enclosed Repair Garage

Utility and Misc. (IBC 312) U

ACCESSORY OCCUPANCY: (<10% per IBC section 508, if applicable)
 Assembly (IBC 303) A-1 A-2 A-3 A-4 A-5
 Business (IBC 304) B
 Educational (IBC 305) E
 Factory (IBC 306) F-1 Moderate F-2 Low
 Hazardous (IBC 307) H-1 Detonable H-2 Deflagrate H-3 Combust H-4 Health H-5 HPM
 Institutional (IBC 308) I-1 I-2 I-3 I-4
 I-3 Condition L 2 3 4 5
 Mercantile (IBC 309) M
 Residential (IBC 310) R-1 R-2 R-3 R-4
 Storage (IBC 311) S-1 Moderate S-2 Low High-piled
 Parking Garage Open Enclosed Repair Garage

C. DESIGN PROFESSIONAL INFORMATION

LEAD DESIGN PROFESSIONAL: GLORY RITTMANN

DESIGNER	FIRM/PHONE	NAME/EMAIL	LICENSE #
Architectural	Lynch Architects & Associates 912.349.5116	Andrew Lynch alynch@lyncharch.com	#012324
Electrical	Method Engineering Group 912.963.1611	Christopher Shaffer, PE cshaffer@MethodEG.com	PE041545
Fire Alarm	Method Engineering Group 912.963.1611	Christopher Shaffer, PE cshaffer@MethodEG.com	PE041545
Plumbing	Method Engineering Group 912.963.1611	Andrew McKeever amckeever@MethodEG.com	40556
Mechanical	Method Engineering Group 912.963.1611	Andrew McKeever amckeever@MethodEG.com	40556

H. EXIT REQUIREMENTS

NUMBER AND ARRANGEMENT OF EXITS (LSC 7.4 & 7.6)

FLOOR, ROOM OR SPACE DESIGNATION	MINIMUM NUMBER OF EXITS		TRAVEL DISTANCE	
	REQUIRED	SHOWN ON PLANS	ALLOWABLE TRAVEL DISTANCE	ACTUAL TRAVEL DISTANCE SHOWN ON PLANS
1st Floor	2	2	250'	107'

OCCUPANT LOAD AND EXIT WIDTH (LSC 7.3.1.2)

USE GROUP OR SPACE DESCRIPTION	AREA sq. ft.	AREA per occupant	CALCULATE GROSS WIDTH PER OCCUPANT (AW)	REQUIRED WIDTH (SECTION 7.3.1.2)		ACTUAL WIDTH (SECTION 7.3.1.2)	
				(A) X	(B)	Star	Level
ASSEMBLY	856	FIXED SEATS	40				
RESTROOM	146	2 - SINGLE	2				
KITCHEN	596	100	6				
OFFICE	25	150	1				
CIRCULATION	212	--	0				
STORAGE	298	500	0				
WALKIN COOLER	136	--	0				
TOTAL	2269	--	50	.3"	.2"	N/A	10.08"

D. TYPE OF WORK BEING PERFORMED

New Construction: (A project from the site work through the completion of work required for tenant occupancy) This includes Shell buildings.)
 Addition: (An existing building that is adding heated or unheated space. This could be in addition to the footprint or a vertical expansion)
 Upfit: (First Time Interior Completion) (The first time interior completion of a virgin (never occupied) shell space in a newly constructed building.)
 Alteration/Renovation: (Previously Occupied Space) This includes Change of Use.

E. CODE INFORMATION

Building Code: 2018 International Building Code (IBC)
 2018 Life Safety Code (LSC) - NFPA 101
 2018 International Mechanical Code
 2018 International Plumbing Code
 2017 National Electrical Code
 2015 International Energy Conservation Code
 2018 International Fire Code
 2010 ADA Standards for Accessible Design

New Building: New Building Shell Building

F. BASIC BUILDING

Construction Type: I-A II-A III-A IV V-A
 I-B II-B III-B V-B

Sprinklers: No Yes Partial NFPA 13-07 NFPA 13D-07
 Standpipes: No Yes Class: I II III Wet Dry
 Fire District: No Yes Localized Flood Hazard Area: (Appendix G) No Yes
 Building Height: +/- 53'-0" Stories: 4 Stories

Gross Building Area:

FLOOR	EXISTING (SQ. FT.)	NEW (SQ. FT.)	SUBTOTAL (SQ. FT.)
FIRST FLOOR	2306 SF	0	2306 SF

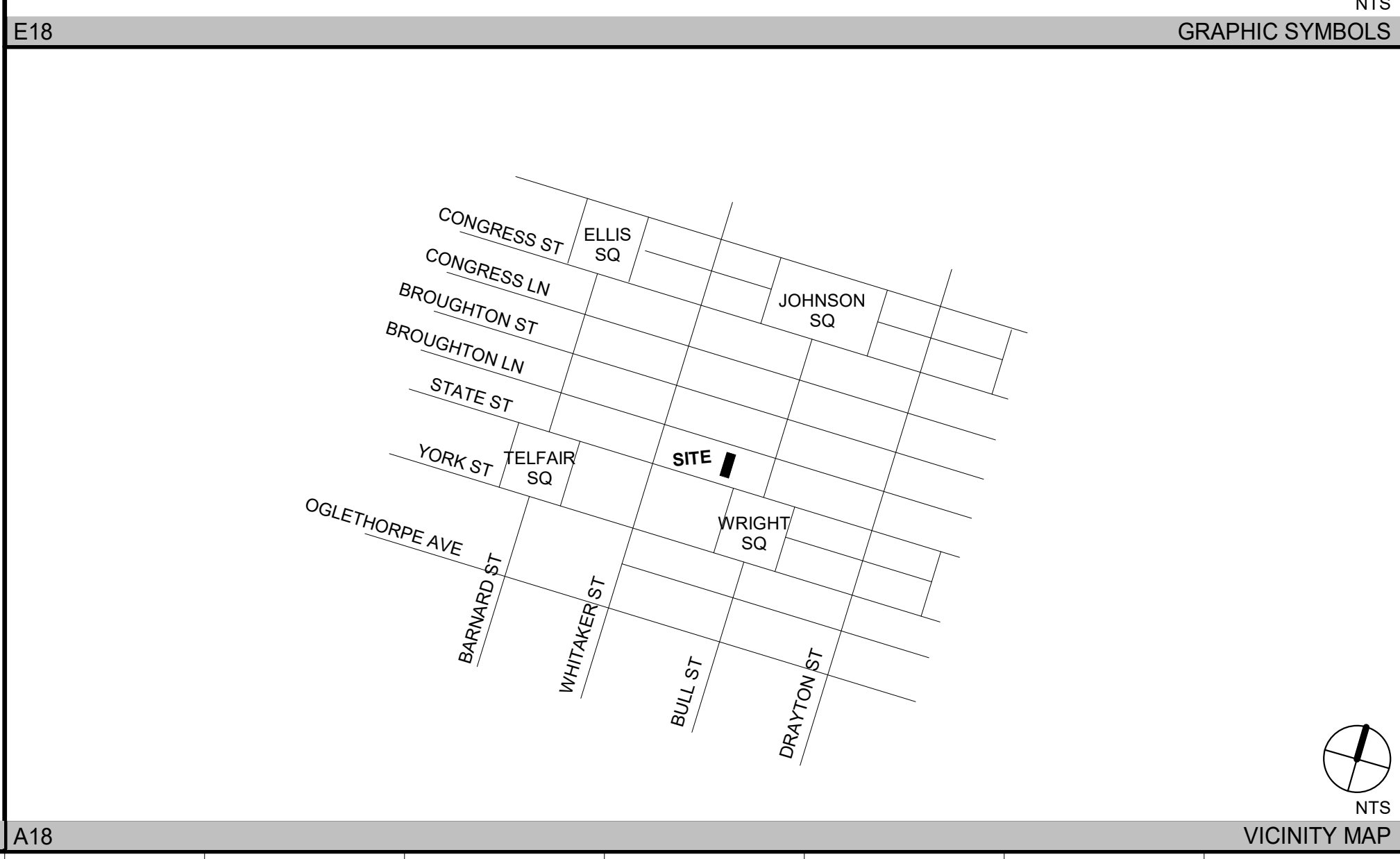
I. PLUMBING FIXTURE REQUIREMENTS

EXCEPTION: 2018 IPC 410.4 SUBSTITUTION
 WHERE RESTAURANTS PROVIDE DRINKING WATER IN A CONTAINER FREE OF CHARGE, DRINKING FOUNTAINS SHALL NOT BE REQUIRED IN THOSE RESTAURANTS.

OCCUPANCY USE GROUP AND/OR SPACE DESIGNATION	WATERCLOSETS	LAVATORIES	DRINKING FOUNTAINS	
				Occupant Load
ASSEMBLY	50	50	50	
Fixtures Required	1	1	0	
Fixtures Provided	1	1	0	

GRAPHIC SYMBOLS

	COLUMN REFERENCE GRID LINE FOR NEW STEEL		
	SECTION CUT		
	ELEVATION KEY		
	DETAIL KEY		
	DETAIL SECTION		
	INTERIOR ELEVATIONS		
	ROOM NAME / ROOM NUMBER		
	WALL TYPE		
	REVISION KEY		
	NEW CONSTRUCTION	(101A)	DOOR (NUMBER)
	EXISTING CONSTRUCTION TO REMAIN	(A)	WINDOW (LETTER)
	EXISTING MATERIAL TO BE DEMOLISHED	GYP (8'-0")	MATERIAL TYPE CEILING HEIGHT
	BREAK LINE	3' - 0"	HORIZONTAL DIMENSION
	CENTERLINE	1/2"	VERTICAL DIMENSION
	LOT LINE PROPERTY LINE		ELEVATION POINT
	FEATURE ABOVE OR BEHIND	2/12	ROOF PITCH



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SHEET INDEX, GENERAL NOTES & CODE ANALYSIS

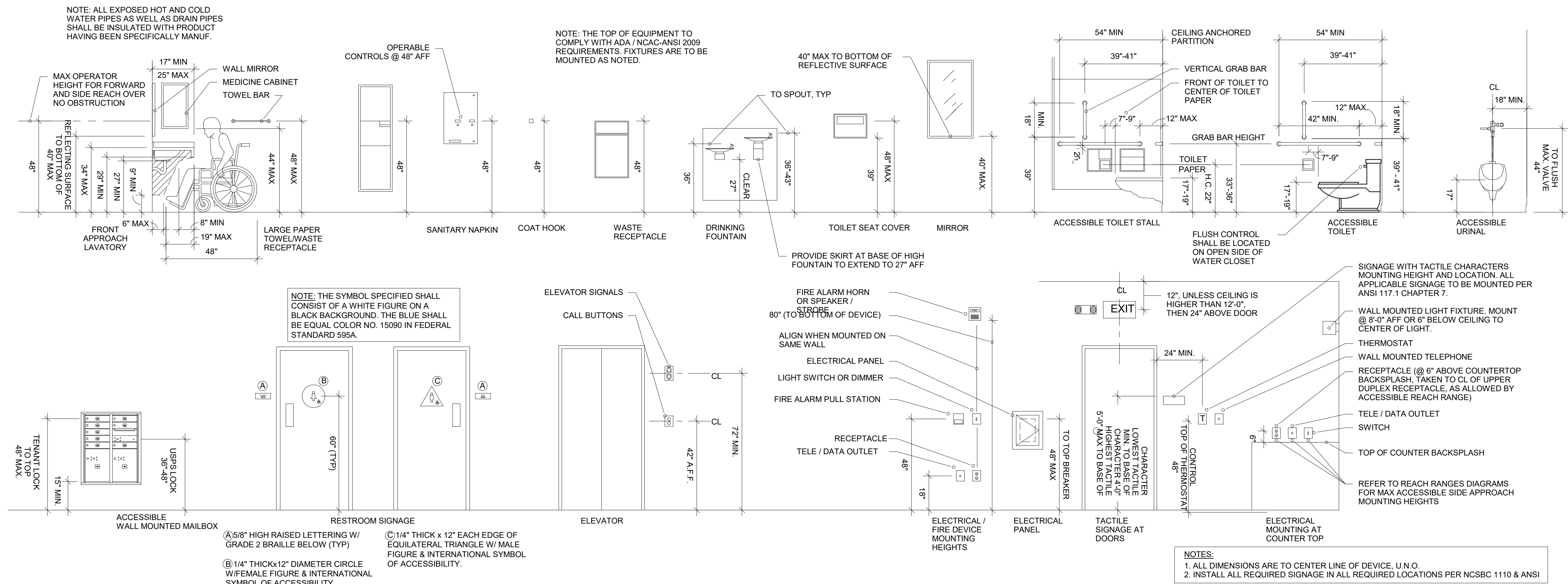
Status: 100%
 Date: MARCH 2ND, 2023
 Project No.: 2228.00
 Drawing No.:

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ACCESSIBLE INSTALLATION STANDARDS (NTS) - GENERAL -

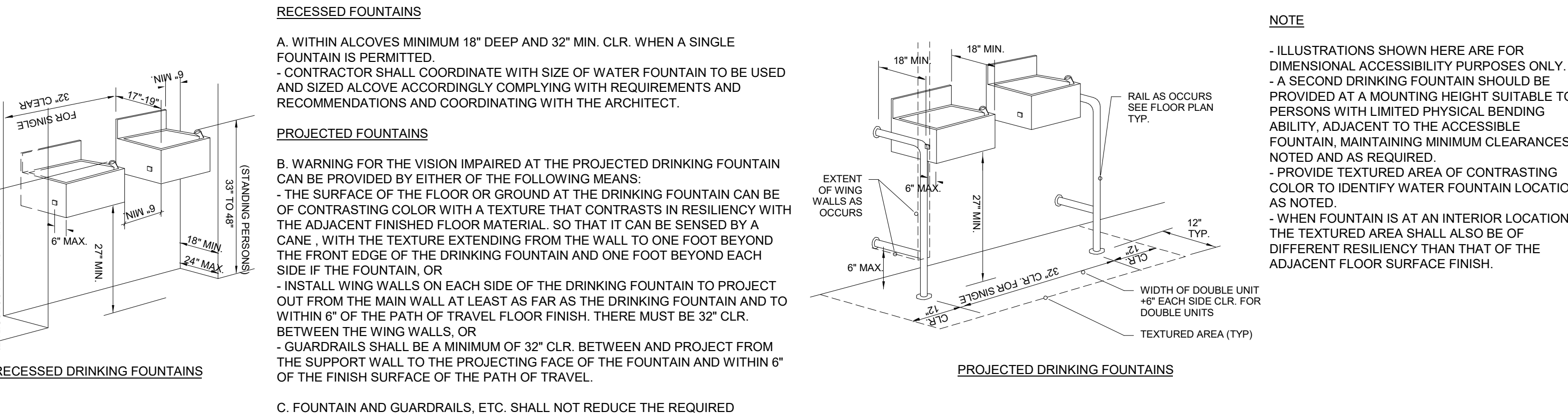
GENERAL INSTALLATION REQUIREMENTS



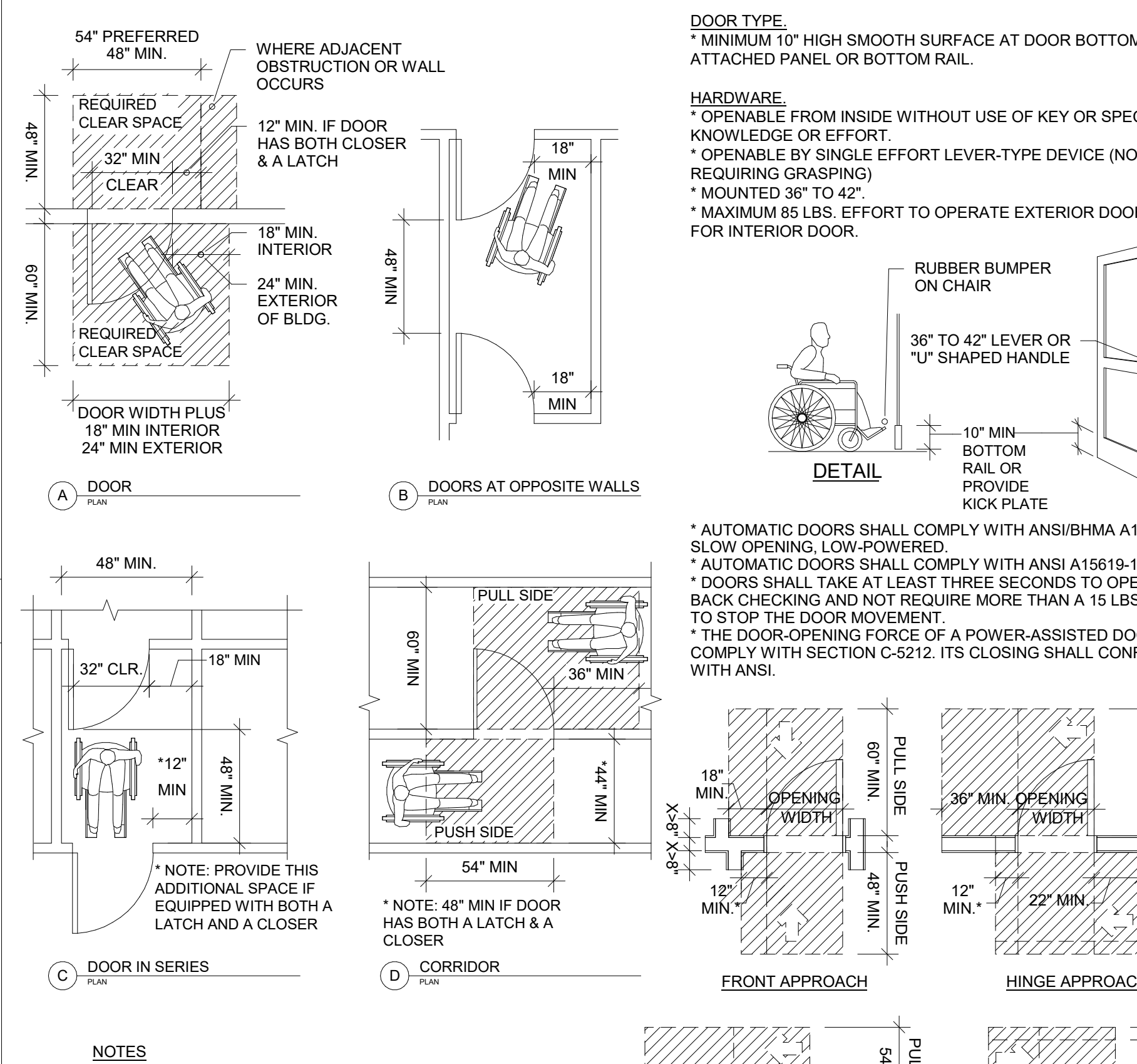
ACCESSIBILITY SIGNS AND PICTOGRAMS (NTS)



ACCESSIBLE DRINKING FOUNTAIN REQUIREMENTS (NTS)



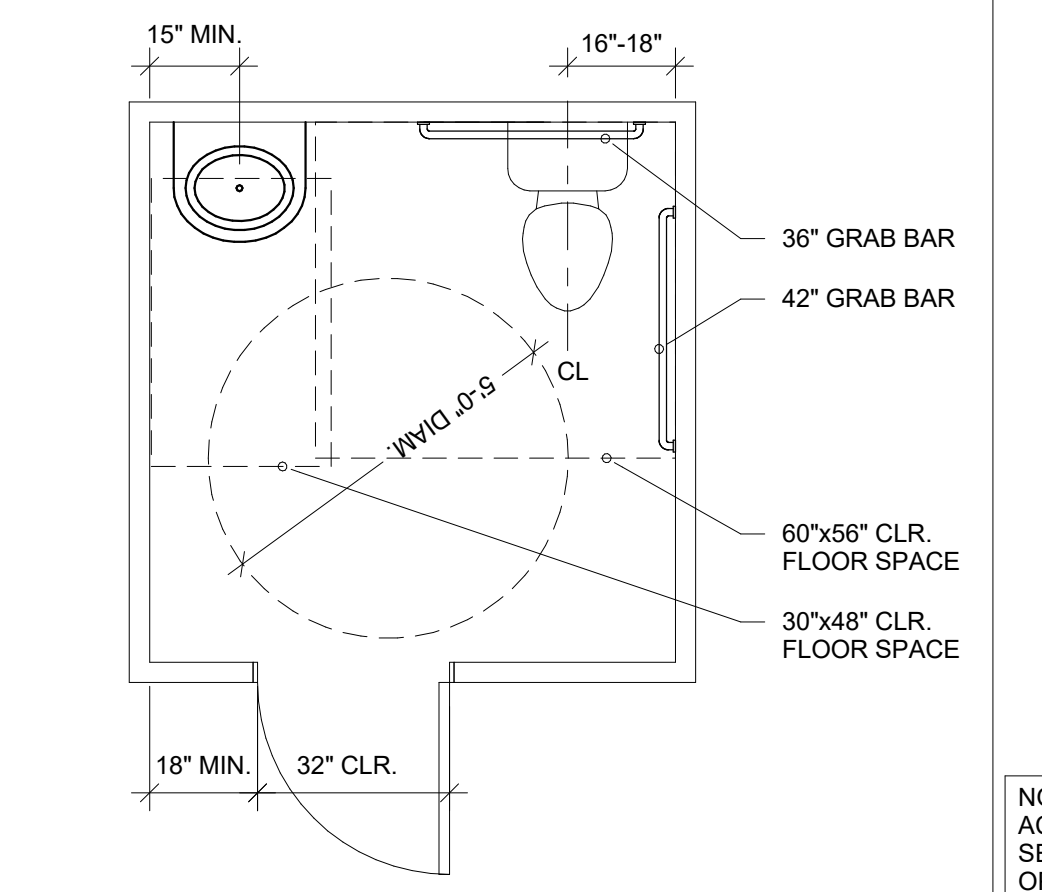
ACCESSIBLE CLEAR SWING - MANUAL DOORS AND GATES - (NTS)



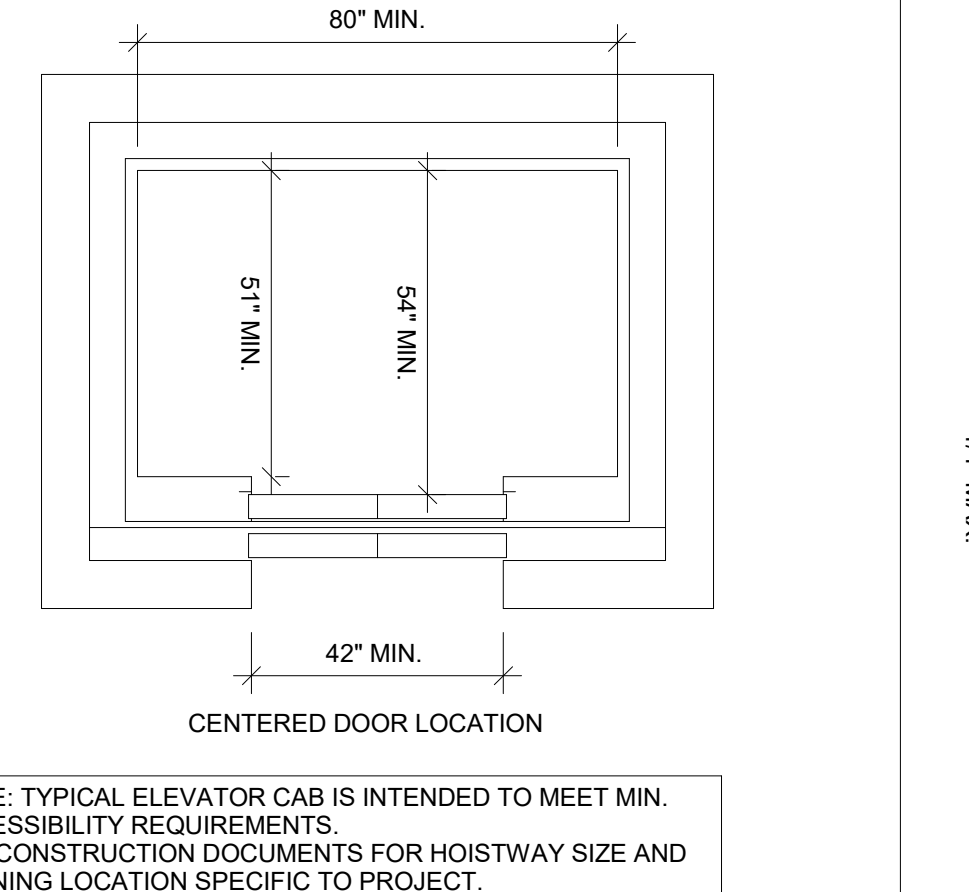
GENERAL NOTES

1. ACCESSIBLE ROUTES SHALL COMPLY WITH FIA DM 1998 REQUIREMENTS 1, 2, 4, ANSI 2009 CHAPTER 4, INCLUDING SECTIONS 401-410, AND 2010 ADA STD CHAPTER 4, INCLUDING SECTIONS 401-410.
2. PROTRUDING OBJECTS ON CIRCULATION PATHS WITHIN COMMON USE AREAS TO COMPLY WITH ANSI 2009 SECTION 7, INCLUDING:
 - A. PROTRUSION LIMITS: OBJECTS WITH LEADING EDGES MORE THAN 27\"/>
3. PROTRUDING OBJECTS ON CIRCULATION PATHS WITHIN PUBLIC USE AREAS TO COMPLY WITH 2010 ADA STD SECTION 307, INCLUDING:
 - A. 2010 ADA STD SECTION 307.2: PROTRUSION LIMITS
 - B. 2010 ADA STD SECTION 307.3: POST-MOUNTED OBJECTS
 - C. 2010 ADA STD SECTION 307.4: TACTILE CLEARANCE
 - D. 2010 ADA STD SECTION 307.5: REQUIRED CLEAR WIDTH
4. FLOOR AND GROUND SURFACES (INCLUDING FLOOR MATERIAL TRANSITIONS) IN COMMON USE AREAS SHALL BE STABLE, FIRM, AND SLIP-RESISTANT AND SHALL COMPLY WITH ANSI 2009 SECTIONS 302, INCLUDING:
 - A. ANSI 2009 SECTION 302.2: CARPET
 - B. ANSI 2009 SECTION 302.3: OPENINGS
5. CHANGES IN LEVEL (INCLUDING FLOOR MATERIAL TRANSITIONS) IN COMMON USE AREAS SHALL COMPLY WITH ANSI 2009 SECTION 303, INCLUDING:
 - A. ANSI 2009 SECTION 303.2: VERTICAL
 - B. ANSI 2009 SECTION 303.3: BEVELED
 - C. ANSI 2009 SECTION 303.4: RAMPED
6. CHANGES IN LEVEL (INCLUDING FLOOR MATERIAL TRANSITIONS) WITHIN COVERED TENANT UNITS TO COMPLY WITH ANSI 2009 SECTION 403: WALKING SURFACES
7. FLOOR AND GROUND SURFACES ALONG ACCESSIBLE ROUTES AND IN ACCESSIBLE ROOMS AND SPACES WITH PUBLIC USE AREAS SHALL BE STABLE, FIRM, AND SLIP-RESISTANT AND SHALL COMPLY WITH 2010 ADA STD SECTION 302.1, INCLUDING:
 - A. 2010 ADA STD SECTION 302.2: CARPET
 - B. 2010 ADA STD SECTION 302.3: OPENINGS
8. CHANGES IN LEVEL (INCLUDING FLOOR MATERIAL TRANSITIONS) IN PUBLIC USE AREAS SHALL COMPLY WITH 2010 ADA STD SECTION 303.1, INCLUDING:
 - A. 2010 ADA STD SECTION 303.2: VERTICAL
 - B. 2010 ADA STD SECTION 303.3: BEVELED
 - C. 2010 ADA STD SECTION 303.4: RAMPED

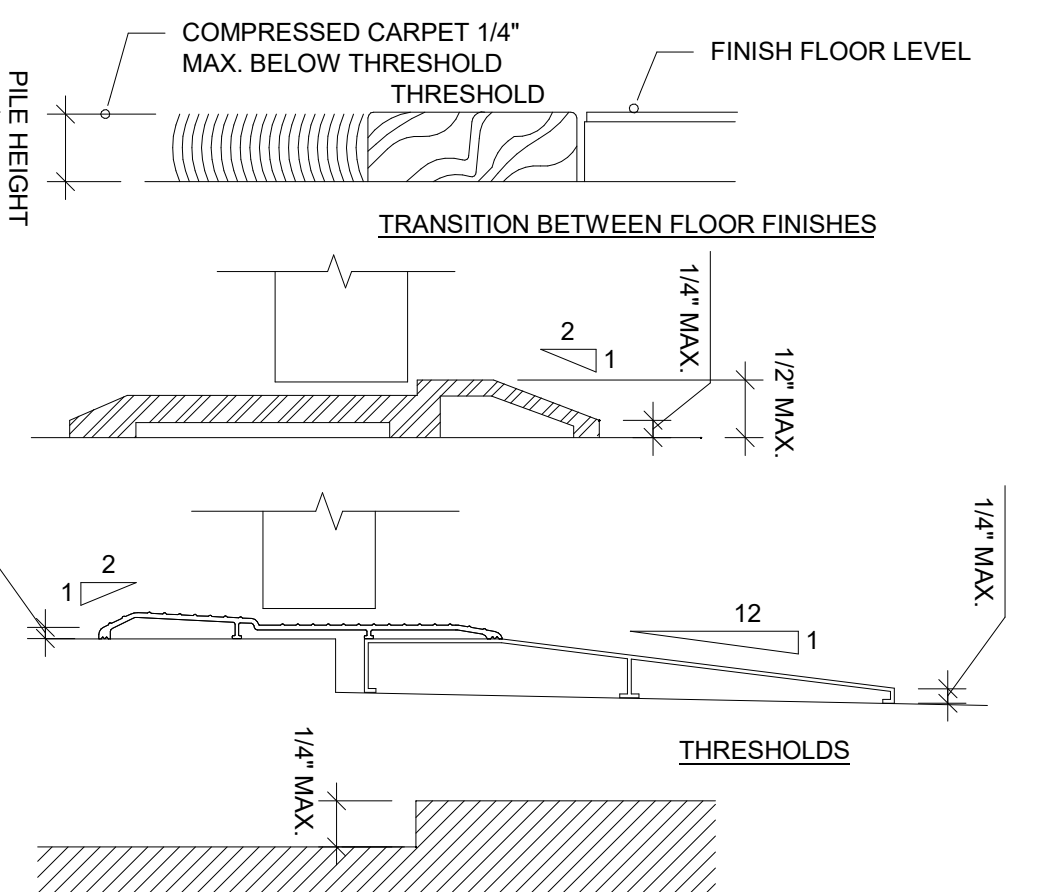
TYPICAL ACCESSIBLE SINGLE TOILET (NTS)



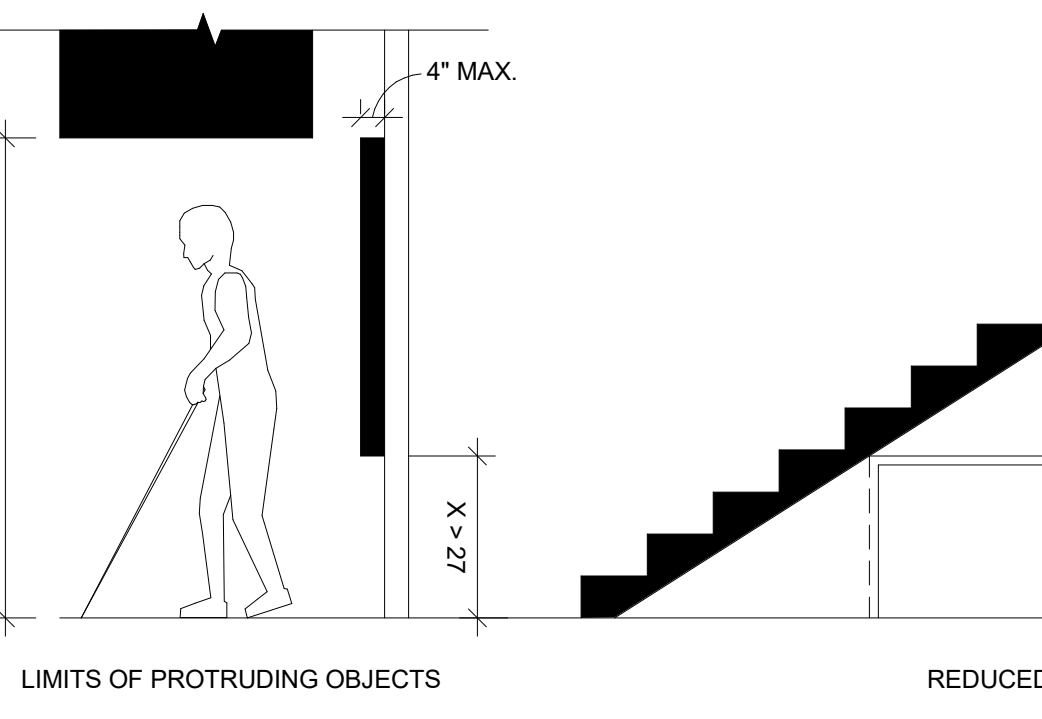
TYPICAL ELEVATOR CAB (NTS)



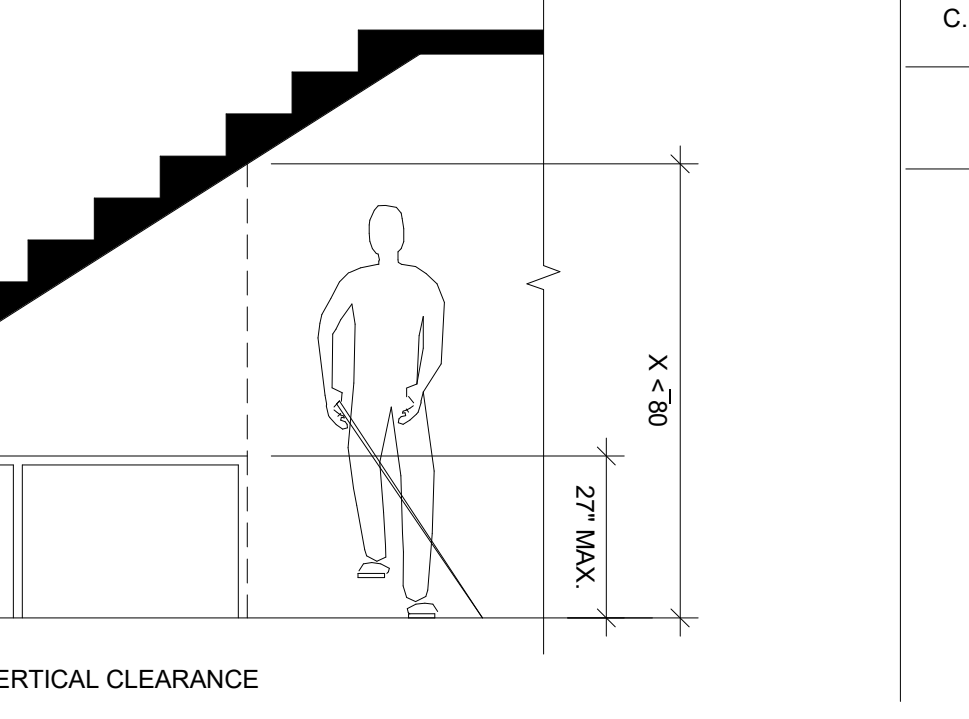
THRESHOLD REQUIREMENTS (NTS)



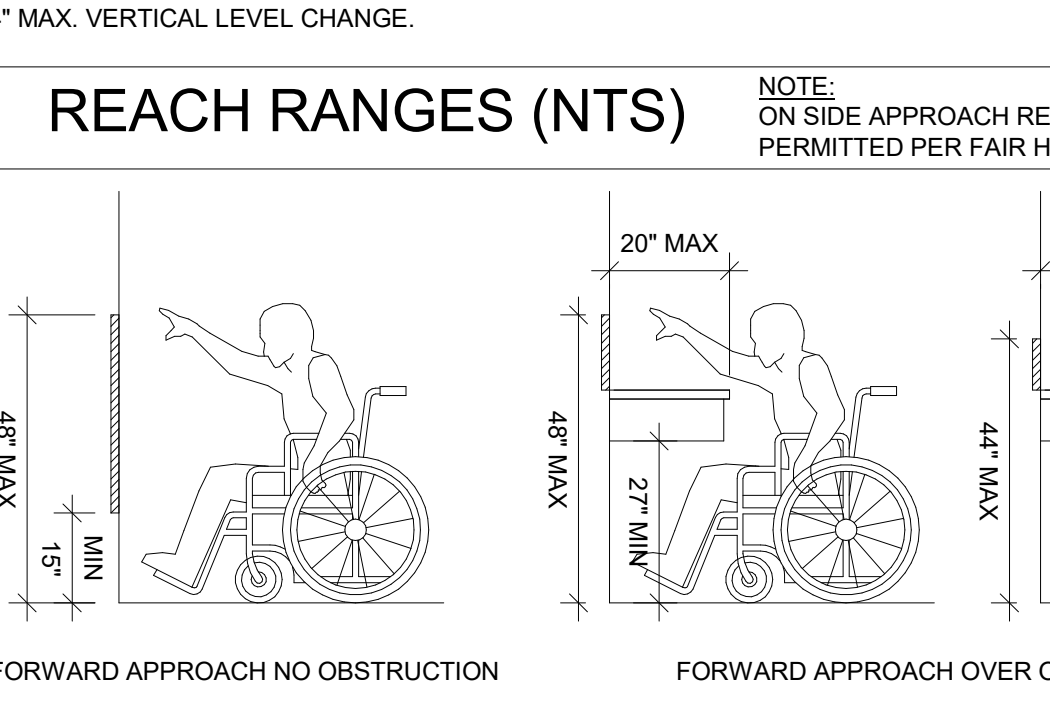
GENERAL CLEARANCES (NTS)



REACH RANGES (NTS)



REACH RANGES (NTS)



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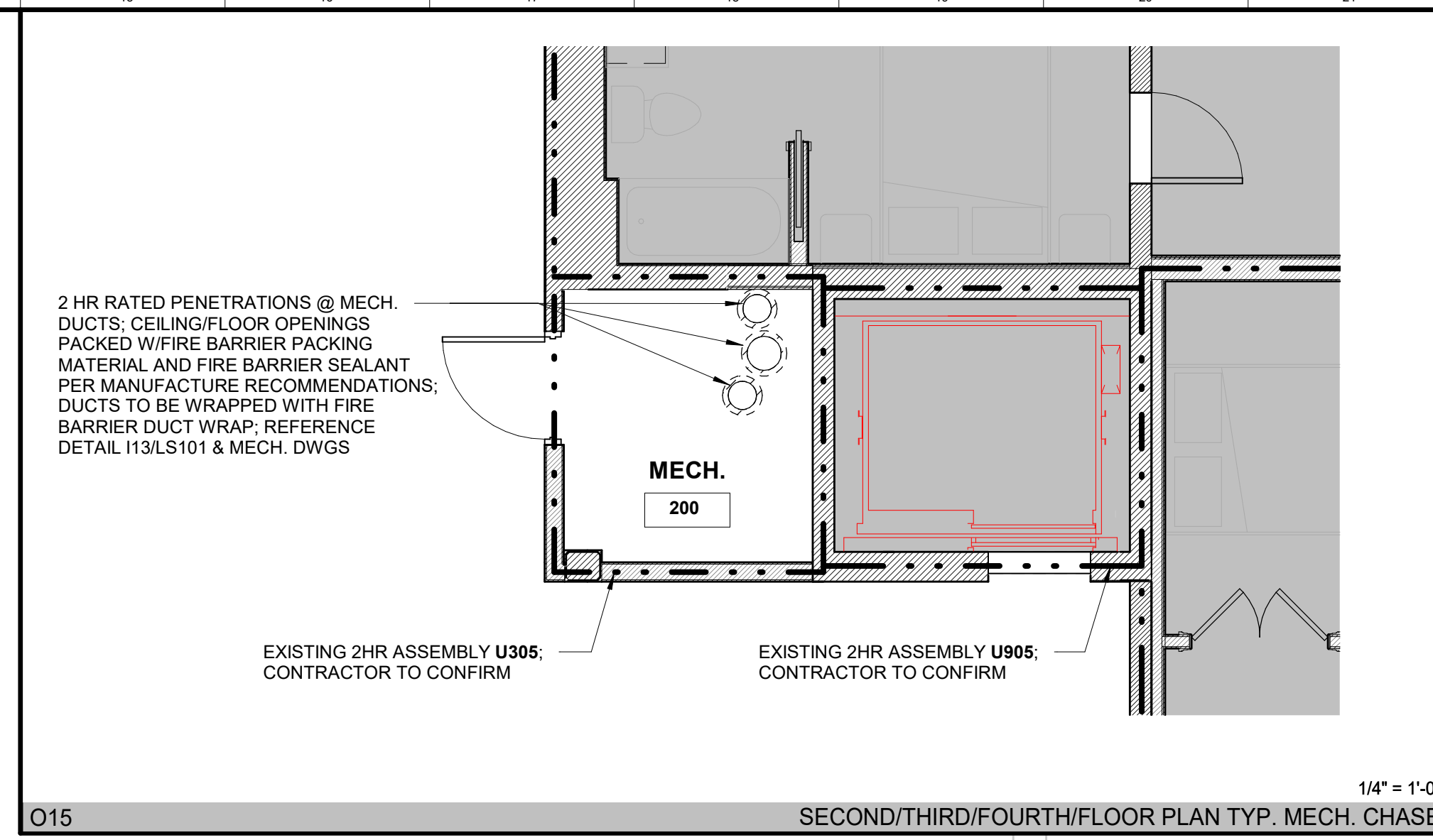
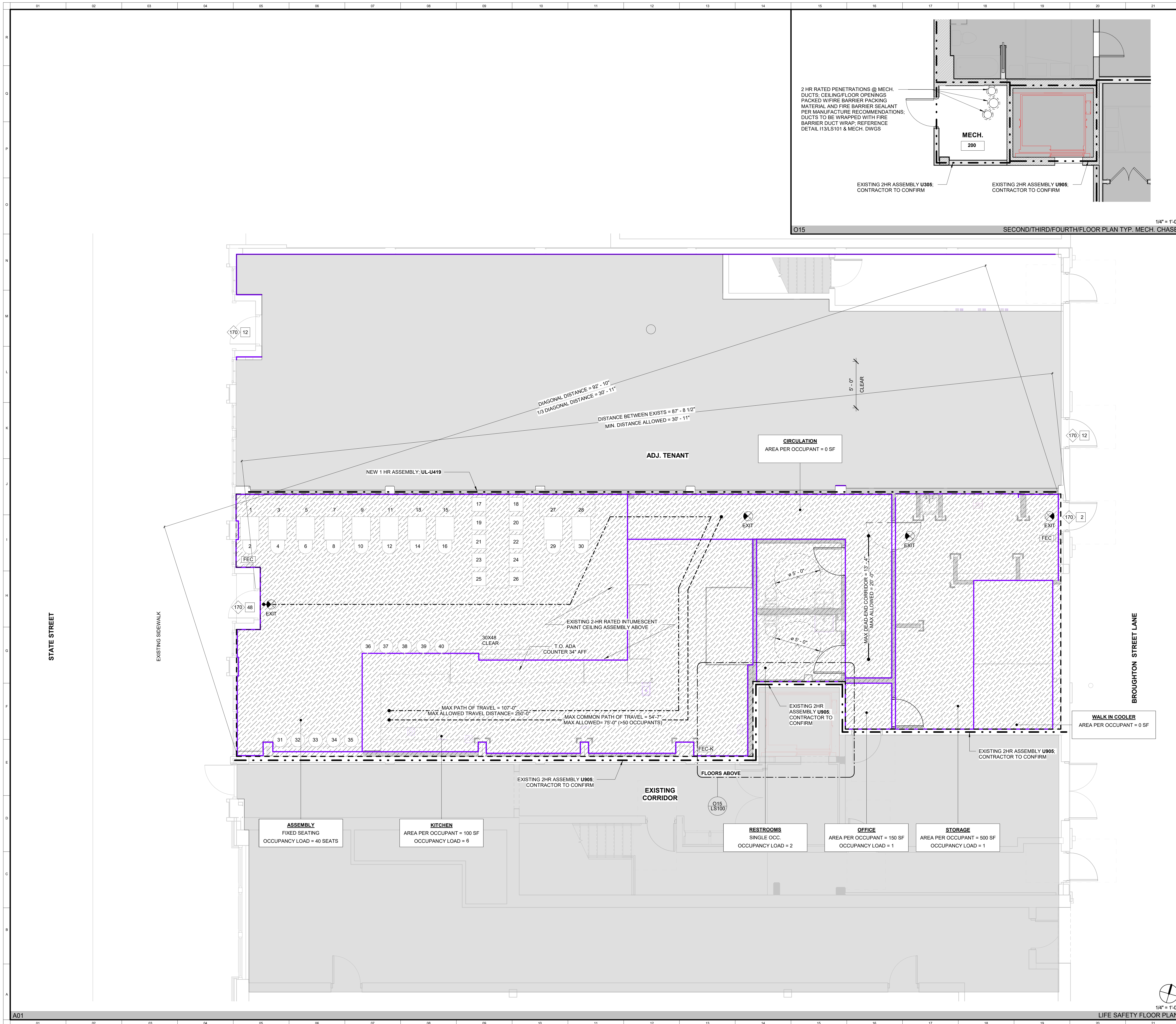
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ADA
DIAGRAMS &
NOTES

Status	100%
Date	MARCH 2ND, 2023
Project No.	2228.00
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NTS
ADA DIAGRAMS AND NOTES

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OCCUPANCY LOAD CALCULATION

OCCUPANCY TYPE	AREA	AREA PER OCCUPANT	OCCUPANCY LOAD
GROUND FLOOR			
RESTROOMS	146 SF	SINGLE OCCUPANCY	2
CIRCULATION	212 SF	0 SF	0
STORAGE	298 SF	500 SF	1
OFFICE	25 SF	150 SF	1
ASSEMBLY	856 SF	FIXED SEATING	40
KITCHEN	598 SF	100 SF	6
WALK IN COOLER	136 SF	0 SF	0
TOTAL AREA	2269 SF	TOTAL OCCUPANTS	50

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LIFE SAFETY PLAN

Status 100%

Date MARCH 2ND, 2023

Project No. 2228.00

Drawing No.

LS100

La₂

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LIFE SAFETY PLAN

3/13/2023 11:39:34 AM

4/16/2019 U905 - BXUV/U905 - UL Product Spec

FIRE-RESISTANCE DESIGN

Assembly Usage Disclaimer

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances

Design No. U905

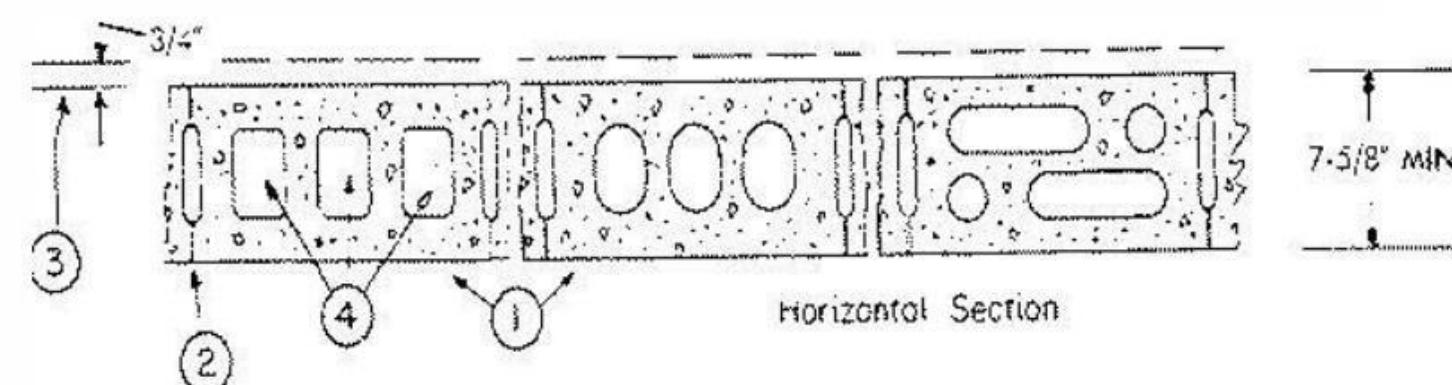
February 18, 2019

Bearing Wall Rating — 2 HR.

Nonbearing Wall Rating — 2 HR

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. Concrete Blocks* — Various designs. Classification D-2 (2 hr). See Concrete Blocks category for list of eligible manufacturers.

2. Mortar — Blocks laid in full bed of mortar, nom, 3/8 in, thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

productspec.ul.com/document.php?id=BXUV/U905

1/3

4/16/2019 U905 - BXUV/U905 - UL Product Spec

3. Portland Cement Stucco or Gypsum Plaster — Add 1/2 hr to classification if used. Where combustible members are framed in wall, plaster or stucco must be applied on the face opposite framing to achieve a max. Classification of 1-1/2 hr. Attached to concrete blocks (Item 1).

4. Loose Masonry Fill — If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Rotary Kiln Process), water repellent vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 2 hr to classification.

5. Foamed Plastic* — (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1). ATLAS ROOFING CORP — "EnergyShield Pro Wall Insulation", "EnergyShield Pro 2 Wall Insulation", EnergyShield CGF Pro and EnergyShield Ply Pro

CARLISLE COATINGS & WATERPROOFING INC — Type R2+ SHEATHE

FIRESTONE BUILDING PRODUCTS CO L L C — "Enverge™ CI Foil Exterior Wall Insulation" and "Enverge™ CI Glass Exterior Wall Insulation"

HUNTER PANELS — Types Xci-Class A, Xci 286

RMAX OPERATING L L C — Types "TSX-8500", "ECOMAXci FR", "TSX-8510", "ECOMAX xi FR White", "ECOMAXci", "ECOMAXci FR Air Barrier", "Thermasheath-XP", "Thermasheath", "Durasheath", "Thermasheath-3", "Durasheath-3".

THE DOW CHEMICAL CO — Types Thermax Sheathing, Thermax Light Duty Insulation, Thermax Heavy Duty Insulation, Thermax Metal Building Board, Thermax White Finish Insulation, Thermax ci Exterior Insulation, Thermax XARMOR ci Exterior Insulation, Thermax IH Insulation, Thermax Plus Liner Panel, Thermax Heavy Duty Plus (HDP) and TUFF-R™ ci Insulation

5A. Building Units — As an alternate to Items 5, min. 1-in thick polyisocyanurate composite foamed plastic insulation boards, nom, 48 by 48 or 96 in. RMAX OPERATING L L C — "Thermasheath-SI", "ECOBASEci", "ThermaBase-CI", "ECOMAXci FR Ply", "ECOMAXci Ply".

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

Last Updated on 2019-02-18

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2/3

10. Grease Duct & Ventilation Air Duct Installation Techniques cont.

3M™ Fire Duct Wrap 615+ Typical Through Penetration Firestop System (Figure 21)

1- or 2-Hour Through Penetration Systems

4-1/2" (11.4cm) Concrete Floor or Wall

- 1. Floor/ceiling or wall assembly
- 2. Duct
- 3. One or two layers 3M™ Fire Barrier Duct Wrap 615+ (application dependent)
- 4. Banding or pinning
- 5. 3M™ Fire Barrier Packing Material PM 4, 4-pcf mineral wool or scrap duct wrap (min. 33% compressed)
- 6. 3M™ Fire Barrier Water Tight Sealant 1000 NS, 3M™ Fire Barrier Water Tight Sealant 1003 SL, or 3M™ Fire Barrier Silicone Sealant 2000+

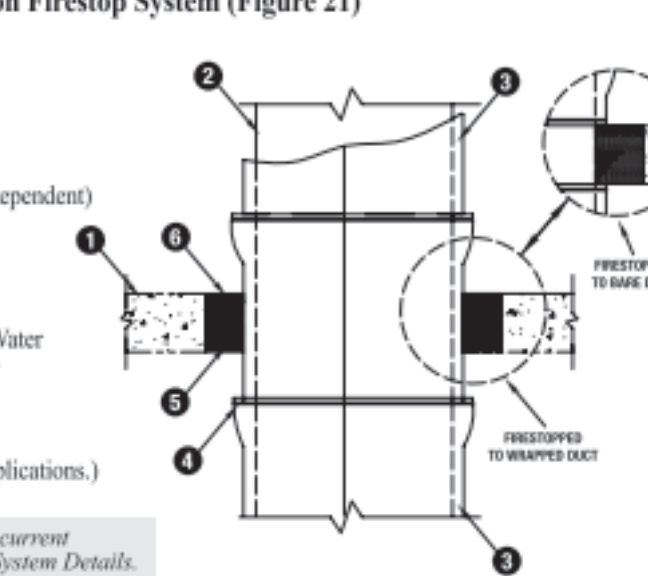
Note: Sealant to be applied at a minimum 5/8" (15.9mm) depth.

For wall assembly apply sealant to both sides of wall.

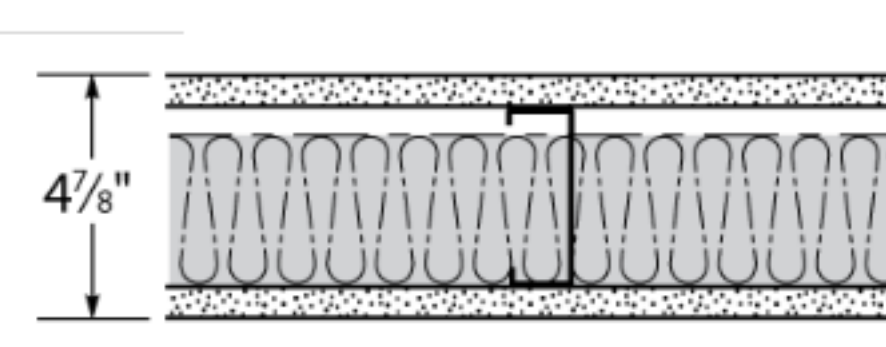
(3M™ Fire Barrier Water Tight Sealant 1003 SL not suited for wall applications.)

Note: System integrity is limited by quality of installation. Consult current independent testing laboratories (e.g. Intertek, UL) for design or system details.

For technical data and properties of 3M™ Fire Barrier Water Tight Sealant 1000 NS, 3M™ Fire Barrier Water Tight Sealant 1003 SL, or 3M™ Fire Barrier Silicone Sealant 2000+, see separate product data sheets available from your 3M representative or go to www.3m.com/firestop.



113 NEW 2 HR THROUGH PENETRATION FIRESTOP



UL U419 or MEA 81-98-M

Interior Partitions - Steel Stud (Non-loadbearing)

Fire Rating 1 hour

STC 49

Sound Test SA-870717

System Thickness 4-7/8"

Detailed Description Quick Description

Gypsum Board - 5/8 in. thick gypsum board applied vertically or horizontally.

• SHEETROCK Brand FIRECODE Core (Type X) - 5/8"

Steel Studs - 3-5/8 in. wide min. 25 gauge spaced @ max 24 in. OC

Product: 362S125-18 Limiting Heights Range: undefined - undefined (in.)

Batts and Blankets - 3 in. mineral wool batt insulation

Gypsum Board - 5/8 in. thick gypsum board applied vertically or horizontally.

• SHEETROCK Brand FIRECODE Core (Type X) - 5/8"

E15 UL U419 - NEW 1 HR ASSEMBLY

FLOOR-CEILING SYSTEMS, NONCOMBUSTIBLE

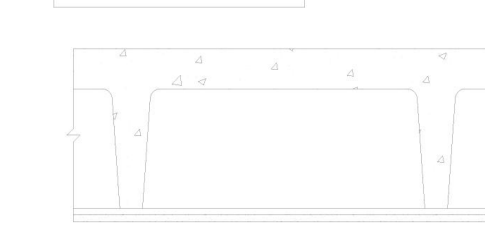
GA FILE NO. FC 2120

GENERIC

2 HOUR FIRE

CONCRETE SLAB, PAN JOISTS, GYPSUM WALLBOARD

One layer 5/8" type X gypsum wallboard or veneer base applied at right angles to rigid furring channels 24" o.c. with 1" Type S drywall screws 8" o.c. Gypsum board end joints located over continuous channels and attached to additional pieces of channel 54" long located midway between continuous channels at end joints. Furring channels 24" o.c. suspended from 2 1/2" precast reinforced concrete joists 35" o.c. with 21 gauge galvanized steel hanger straps fastened to sides of joists. Joist leg depth, 10".



Approx. Ceiling Weight: 3 psf Fire Test: PCA 1281-1, 10-67

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1/3



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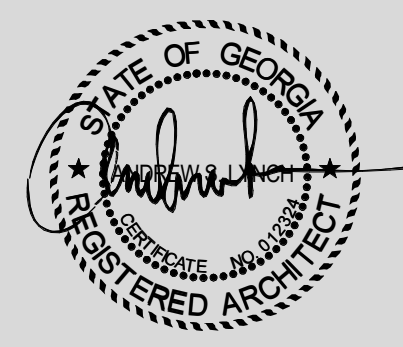
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JAMIE SCHROTBERGER 6 WEST STATE STREET SAVANNAH, GEORGIA 31401

Revisions

No	Date	Description

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UL LISTING

Status	100%
Date	MARCH 2ND, 2023
Project No.	2228.00
Drawing No.	

LS101

3/13/2023 11:39:34 AM

FIRE-RESISTANCE DESIGN

Assembly Usage Disclaimer

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States

BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

See General Information for Fire-resistance Ratings - ANSI/UL 263 Certified for United States Design Criteria and Allowable Variances

See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variances

Design No. U305

February 19, 2019

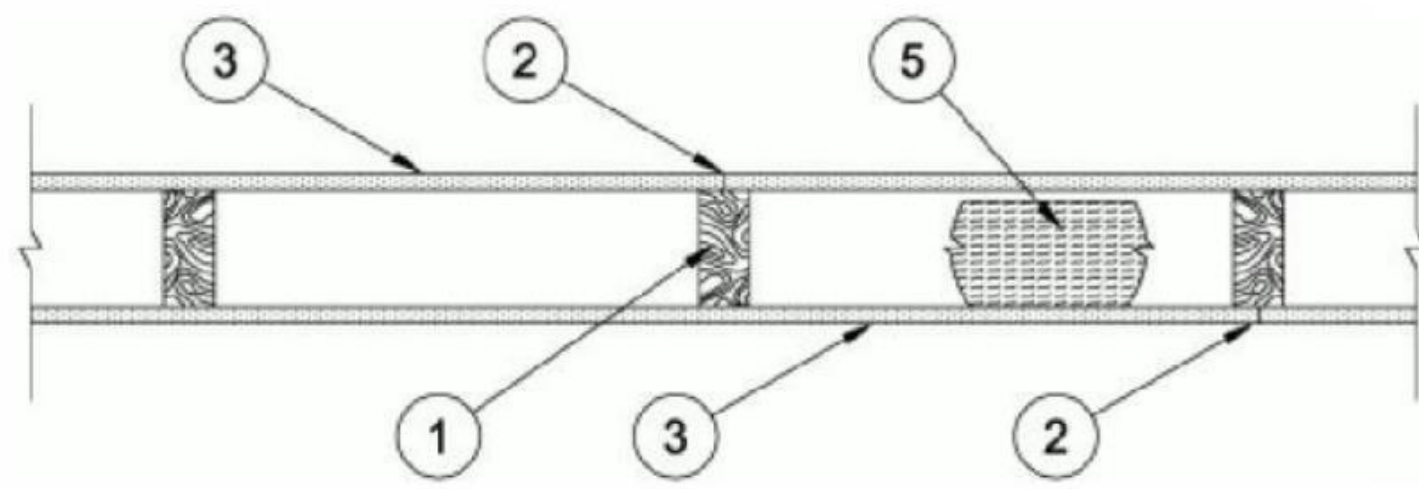
Bearing Wall Rating — 1 Hr

Finish Rating — See Items 3, 3A, 3D, 3E, 3F, 3G, 3H, 3J and 3L.

STC Rating - 56 (See Item 9)

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



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AMERICAN GYPSUM CO — Types AGX-1 (finish rating 23 min.), M-Glass (finish rating 23 min.), Type AGX-11 (finish rating 26 min), Type AGX-12 (finish rating 22 min), Type LightRoc (finish rating 23 min.) or Type AG-C

BEIJING NEW BUILDING MATERIALS PUBLIC LTD CO — Type DBX-1 (finish rating 24 min)

CERTAINTED GYPSUM INC — Type 1, Type SF3 (finish rating 20 min) or FRPC; Type C, Type X-2, Type X or Type X-1 (finish rating 26 min); Type EGRG or GlasRoc (finish rating 23 min), GlasRoc-2, Type Habito (finish rating 26 min).

CGC INC — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRX (finish rating 24 min)

CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC6A (finish rating 34 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX (finish rating 21 min), Type CLLX (finish rating 24 min)

GEORGIA-PACIFIC GYPSUM L L C — Type 5 (finish rating 26 min), Type 6 (finish rating 23 min), Type 9 (finish rating 26 min), Type C (finish rating 26 min), Type DGG (finish rating 20 min), Type GPFS1 (finish rating 20 min), Type GPFS2 (finish rating 20 min), Type GPFS6 (finish rating 26 min), Type DS, Type DAP, Type DD (finish rating 20 min), Type DA, Type DAPC, Type LS (finish rating 23 min), Type X, Veneer Plaster Base - Type X, Water Rated - Type X, Sheathing - Type X, Soffit - Type X, Type LWX (finish rating 22 min), Veneer Plaster Base-Type LWX (finish rating 22 min), Water Rated-Type LWX (finish rating 22 min), Sheathing-Type LWX (finish rating 22 min), Soffit-Type LWX (finish rating 22 min), Type DGLW (finish rating 22 min), Water Rated-Type DGLW (finish rating 22 min), Sheathing-Type DGLW (finish rating 22 min), Soffit-Type DGLW (finish rating 22 min), Type LWX (finish rating 22 min), Type LW2X (finish rating 22 min), Veneer Plaster Base - Type LW2X (finish rating 22 min), Water Rated - Type LW2X (finish rating 22 min), Sheathing - Type LW2X (finish rating 22 min), Soffit - Type LW2X (finish rating 22 min), Type DGL2W (finish rating 22 min), Water Rated - Type DGL2W (finish rating 22 min), Sheathing - Type DGL2W (finish rating 22 min)

USG MEXICO S A D E C V — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), SCX (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type ULX (finish rating 22 min)

3A. Gypsum Board* — (As an alternate to Item 3) — 5/8 in. thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a max 8 in. OC, with last screw 1 in. from edge of board. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.

AMERICAN GYPSUM CO — Types AGX-1 (finish rating 25 min.), M-Glass (finish rating 25 min.), AG-C (finish rating 25 min.), LightRoc (finish rating 25 min.)

CERTAINTED GYPSUM INC — Type C, Type X-2, Type X or Type X-1 (finish rating 26 min)

CGC INC — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SCX (finish rating 24 min), Type SHX (finish rating 24 min), Type WRC (finish rating 24 min), Type WRX (finish rating 24 min)

NATIONAL GYPSUM CO — Type FSW (finish rating 24 min)

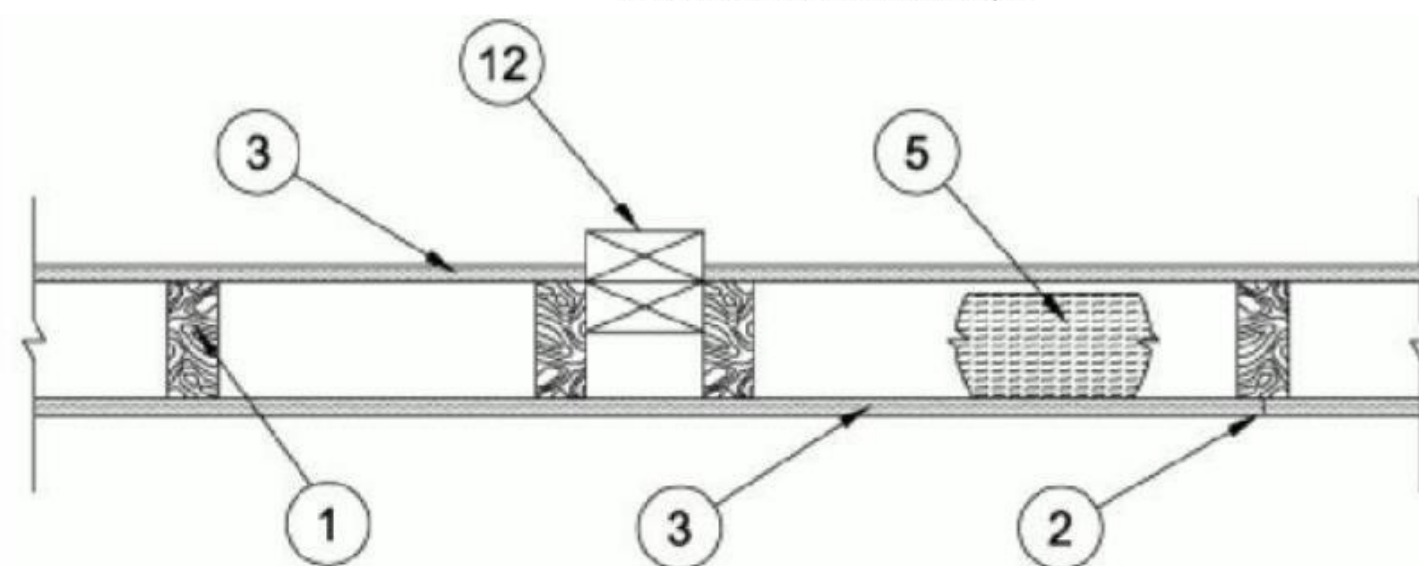
UNITED STATES GYPSUM CO — Type AR (finish rating 24 min), Type SCX (finish rating 24 min), Type SGX (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type FRX-G (finish rating 24 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min)

USG BORAL DRYWALL SFZ LLC — Types C, SCX, SGX (finish rating 24 min).

USG MEXICO S A D E C V — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX, Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min)

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NATIONAL GYPSUM CO — Type FSK (finish rating 20 min), Type FSK-G (finish rating 20 min), Type FSW (finish rating 20 min), Type FSW-2 (finish rating 24 min), Type FSW-3 (finish rating 20 min), Type FSW-5 (finish rating 22 min), Type FSW-G (finish rating 20 min), Type FSK-C (finish rating 20 min), Type FSW-C (finish rating 20 min), Type FSMR-C, Type FSW-6 (finish rating 20 min), Type FSL (finish rating 24 min), Type FSW-8, Type FSLX (finish rating 21 min).

NATIONAL GYPSUM CO — Riyadh, Saudi Arabia — Type FR, or WR.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Types C, PG-2 (finish rating 20 min), PG-3 (finish rating 20 min), Types PG-3W, PG-5W (finish rating 20 min), Type PG-4 (finish rating 20 min), Type PG-6 (finish rating 23 min), Types PG-3WS, PG-5WS, PGS-WRS (finish rating 20 min), Types PG-5, PG-9 (finish rating 26 min), PG-11 PG-13 (Nails increased to 2 in.), or Type PG-C

PANEL REY S A — Type GREX, PRX, PRC, PRC2; Types RHX, Guard Rey, MDX, ETX (finish rating 22 min)

SIAM GYPSUM INDUSTRY (SARABURI) CO LTD — Type EX-1 (finish rating 26 min)

THAI GYPSUM PRODUCTS PCL — Type C, Type X (finish rating 26 min)

UNITED STATES GYPSUM CO — Type AR (finish rating 24 min), Type C (finish rating 24 min), Type FRX-G (finish rating 29 min), Type IP-AR (finish rating 24 min), Type IPC-AR (finish rating 24 min), Type IP-X1 (finish rating 24 min), Type IP-X2 (finish rating 24 min), Type SHX (finish rating 24 min), Type SCX (finish rating 24 min), Type SGX (finish rating 24 min), Type ULX (finish rating 22 min), Type WRX (finish rating 24 min), Type WRC (finish rating 24 min), Type ULX (finish rating 20 min)

USG BORAL DRYWALL SFZ LLC — Type SGX (finish rating 24 min).

3B. Gypsum Board* — (As an alternate to Item 3) — Nom 3/4 in. thick, installed with 1-7/8 in. long cement coated nails as described in Item 3 or 1-3/8 in. long Type W coarse thread gypsum panel steel screws as described in Item 3A.

CGC INC — Types AR, IP-AR

UNITED STATES GYPSUM CO — Types AR, IP-AR

USG MEXICO S A D E C V — Types AR, IP-AR

3C. Gypsum Board* — (As an alternate to Items 3, 3A and 3B) — 5/8 in. thick, 2 ft wide, tongue and groove edge, applied horizontally to one side of the assembly. Installed with 1-7/8 in. long cement coated nails as described in Item 3 or 1-1/4 in. long Type W coarse thread gypsum panel steel screws as described in Item 3A. Joint covering (Item 2) not required.

CGC INC — Type SHX

UNITED STATES GYPSUM CO — Type SHX

USG MEXICO S A D E C V — Type SHX

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from edge of board or nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. When used in widths of other than 48 in., gypsum boards are to be installed horizontally.

GEORGIA-PACIFIC GYPSUM L L C — Type DGG (finish rating 20 min), GreenGlass Type X (finish rating 23 min)

3F. Gypsum Board* — (As an alternate to Items 3, 3A, 3B, 3C, 3D, and 3E) — 5/8 in. glass-mat faced with square edges, applied either horizontally or vertically. Gypsum panels nailed 7 in. OC around the perimeter and in the field with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Nails shall be placed 1 inch and 3 inch from horizontal joints and 7 inch OC thereafter.

CGC INC — Type USGX (finish rating 22 min)

UNITED STATES GYPSUM CO — Type USGX (finish rating 22 min.)

USG BORAL DRYWALL SFZ LLC — Type USGX (finish rating 22 min.)

USG MEXICO S A D E C V — Type USGX (finish rating 22 min.)

3G. Gypsum Board* — (As an alternate to Items 3 through 3F) — 5/8 in. thick paper surfaced applied vertically. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads.

GEORGIA-PACIFIC GYPSUM L L C — Type X ComfortGuard Sound Deadening Gypsum Board (finish rating 27 min)

3H. Gypsum Board* — (As an alternate to Items 3) — Not to be used with items 6 or 7. 5/8 in. thick paper surfaced applied vertically only. Gypsum panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads.

NATIONAL GYPSUM CO — SoundBreak XP Type X Gypsum Board

3I. Gypsum Board* — (As an alternate to Items 3 through 3H, Not Shown) — Nominal 5/8 in. thick, 4 ft wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Panel joints covered with paper tape and two layers of joint compound. Nailheads covered with two layers of joint compound.

PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock ES (finish rating 20 min)

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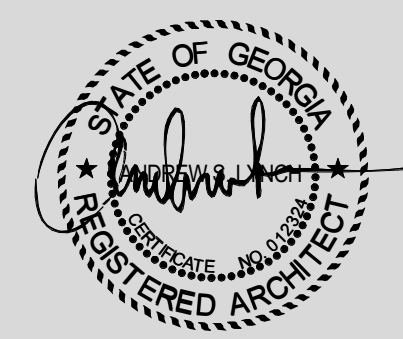
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Revisions

Table with 3 columns: No, Date, Description

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UL LISTING

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LS102

<p>4/16/2019 U305 - BXUV/U305 - UL Product Spec</p> <p>fitted or adhered over the screw heads. Lead batten strips and discs to have a purity of 99.9% meeting the Federal specification QQ-L-2011, Grade "C". Fasteners for face layer gypsum panels (Items 4, 4A or 4B) when installed over lead backed board to be min 2-1/2 in. Type S-12 bugle head steel screws spaced as described in Item 4.</p> <p>RADIATION PROTECTION PRODUCTS INC — Type RPP - Lead Lined Drywall</p> <p>3N. Gypsum Board* — (As an alternate to Item 3) — 5/8 in, thick, 4 ft. wide, applied horizontally or vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Secured as described in Item 3 or 3A.</p> <p>CERTAINTED GYPSUM INC — Easi-Lite Type X (finish rating 24 min), Easi-Lite Type X-2 (finish rating 24 min)</p> <p>3O. Wall and Partition Facings and Accessories* — (As an alternate to Item 3, Not Shown) — Nominal 5/8 in, thick, 4 ft wide panels, applied vertically. Panels nailed 7 in. OC with 6d cement coated nails 1-7/8 in. long, 0.0915 in. shank diam and 15/64 in. diam heads. Panel joints covered with paper tape and two layers of joint compound. Nailheads covered with two layers of joint compound.</p> <p>PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 527 (finish rating 24 min).</p> <p>3P. Gypsum Board* — (As an alternate to Item 3, Not Shown) — Two layers nom. 5/16 in. thick gypsum panels applied vertically or horizontally. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered or backed by wood studs. Horizontal joints on the same side between face and base layers need not be staggered. Base layer gypsum panels fastened to studs with 1-1/4 in. long drywall nails spaced 8 in. OC. Face layer gypsum panels fastened to studs with 1-7/8 in. long drywall nails spaced 8 in. OC starting with a 4" stagger.</p> <p>NATIONAL GYPSUM CO — Type FSW (finish rating 25 min)</p> <p>3Q. Gypsum Board* — (As an alternate to Item 3) — 5/8 in, thick gypsum panels, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels fastened to framing with 1-1/4 in. long Type W coarse thread gypsum panel steel screws spaced a maximum 10 in. OC with the last two screws 4 and 1 in. from the edges of the board. When used in widths other than 48 in., gypsum panels are to be installed horizontally.</p> <p>CONTINENTAL BUILDING PRODUCTS OPERATING CO, L L C — Type LGFC6A (finish rating 21 min), Type LGFC2A, Type LGFC-C/A, Type LGFC-WD, Type LGLLX</p> <p>3R. Gypsum Board* — (As an alternate to Item 3, For use with Item 5H) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 3 above. Applied either horizontally or vertically, and screwed to panels with 1-5/8 in. long Type W coarse thread steel</p> <p>productspecul.com/document.php?id=BXUV/U305</p>	<p>4/16/2019 U305 - BXUV/U305 - UL Product Spec</p> <p>5A. Fiber, Sprayed* — (Not Shown — Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) — Spray applied cellulose insulation material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product with a nominal dry density of 2.7 lb/ft³. Alternate Application Method: The fiber is applied without water or adhesive at a nominal dry density of 3.5 lb/ft³, in accordance with the application instructions supplied with the product. When Item 6B is used, Fiber, Sprayed shall be INS735, INS745, INS765LD or INS770LD.</p> <p>U S GREENFIBER L L C — INS735 & INS745 for use with wet or dry application. INS510LD, INS515LD, INS541LD, INS735, INS745, INS765LD, and INS770LD are to be used for dry application only</p> <p>5B. Fiber, Sprayed* — (Not Shown - Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) - Spray applied cellulose insulation material. The fiber is applied with water to interior surfaces in accordance with the application instructions supplied with the product. Applied to completely fill the enclosed cavity. Minimum dry density of 4.3 pounds per cubic ft.</p> <p>NU-WOOL CO INC — Cellulose Insulation</p> <p>5C. Batts and Blankets* — Required for use with resilient channels, Item 7, 3 in. thick mineral wool batts, friction-fitted to fill interior of wall.</p> <p>THERMAFIBER INC — Type SAFB, SAFB FF</p> <p>5D. Glass Fiber Insulation — (As an alternate to Item 5C) — 3 in. thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, friction-fitted to fill the interior of the wall. See Batts and Blankets (BKNV or BZJZ) Categories for names of Classified companies.</p> <p>5E. Batts and Blankets* — (Required for use with Wall and Partition Facings and Accessories, Item 3D) — Glass fiber insulation, nom 3-1/2 in., thick, min. density of 0.80 pcf, with a flame spread of 25 or less and a smoke developed of 50 or less, friction-fitted to completely fill the stud cavities. See Batts and Blankets Category (BKNV) for names of manufacturers.</p> <p>5F. Fiber, Sprayed* — (Optional, Not Shown — Not for use with Items 6, 6A, 6B, 6C, or 6D) — As an alternate to Batts and Blankets (Item 5) and Item 5A - Spray applied granulated mineral fiber material. The fiber is applied with adhesive, at a minimum density of 4.0 pcf, to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. See Fiber, Sprayed (CCAZ). AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus</p> <p>5G. Fiber, Sprayed* — (Optional, Not Shown — Not for use with Items 6, 6A, 6B, 6C, or 6D) — As an alternate to Batts and Blankets (Item 5) and Item 5A - Brown Colored Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed stud cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft³.</p> <p>INTERNATIONAL CELLULOSE CORP — Celbar-RL</p> <p>5H. Foamed Plastic* — (Optional -For use with Item 3R) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.</p> <p>SES FOAM INC — Nexseal™ 2.0 or Nexseal™ 2.0 LE Spray Foam and Sucraseal Spray Foam.</p> <p>5I. Fiber, Sprayed* — (Not Shown — Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) - Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the outer face the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft³.</p> <p>APPLEGATE HOLDINGS L L C — Type 1 SAFE Applegate Fired Rated Material</p> <p>6. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:</p> <p>a. Furring Channels — Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.</p> <p>b. Steel Framing Members* — Used to attach furring channels (Item 6a) to studs. Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.</p> <p>RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.</p> <p>12/19 productspecul.com/document.php?id=BXUV/U305</p>	<p>4/16/2019 U305 - BXUV/U305 - UL Product Spec</p> <p>PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75)</p> <p>6A. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members on one side of studs as described below:</p> <p>a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 3.</p> <p>b. Steel Framing Members* — Used to attach furring channels (Item 6Aa) to one side of studs only. Clips spaced 48 in. OC., and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.</p> <p>KINETICS NOISE CONTROL INC — Type Isomax</p> <p>6B. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:</p> <p>a. Furring Channels — Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.</p> <p>b. Steel Framing Members* — Used to attach furring channels (Item 6Ba) to studs. Clips spaced 48 in. OC. Genie clips secured to studs with No. 8 x 1-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.</p> <p>PLITEQ INC — Type Genie Clip</p> <p>6C. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:</p> <p>a. Furring Channels — Formed of No. 25 MSG galv steel, Spaced 24 in. OC perpendicular to studs. Channels secured to studs as</p> <p>described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 3.</p> <p>b. Steel Framing Members* — Used to attach furring channels (Item 6Ca) to studs. Clips spaced 48 in. OC., and secured to studs with No. 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.</p> <p>STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R</p> <p>6D. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:</p> <p>a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with a double strand of No. 18 AWG twisted steel wire. Gypsum board attached to furring channels as described in Item 3.</p> <p>b. Steel Framing Members* — Used to attach furring channels (Item 6Da) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.</p> <p>REGUPOL AMERICA — Type SonusClip</p> <p>6E. Steel Framing Members* — (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below:</p> <p>a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Phillips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 3.</p> <p>b. Steel Framing Members* — Used to attach resilient channels (Item 6Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.</p> <p>KEENE BUILDING PRODUCTS CO INC - Type RC+ Assurance Clip</p> <p>14/19 productspecul.com/document.php?id=BXUV/U305</p>	<p>4/16/2019 U305 - BXUV/U305 - UL Product Spec</p> <p>7. Furring Channel — Optional — Not Shown — For use on one side of the wall - Resilient channels, 25 MSG galv steel, spaced vertically 24 in. OC, flange portion screw attached to one side of studs with 1-1/4 in. long diamond shaped point, double lead Phillips head steel screws. When resilient channels are used, insulation, Items 5C or 5D is required.</p> <p>8. Caulking and Sealants — (Not Shown, Optional) — A bead of acoustical sealant applied around the partition perimeter for sound control.</p> <p>9. STC Rating — The STC Rating of the wall assembly is 56 when it is constructed as described by Items 1 through 6, except:</p> <p>A. Item 2, above — Nailheads shall be covered with joint compound.</p> <p>B. Item 2, above — Joints As described, shall be covered with fiber tape and joint compound.</p> <p>C. Item 5, above — Batts and Blankets* The cavities formed by the studs shall be friction fit with R-19 unfaced fiberglass insulation batts measuring 6-1/4 in. thick and 15-1/4 in. wide.</p> <p>D. Item 6, above — Steel Framing Members* Type RSIC-1 clips shall be used to attach gypsum board to studs on either side of the wall assembly.</p> <p>E. Item 8, above — Caulking and Sealants (Not Shown) A bead of acoustical sealant shall be applied around the partition perimeter for sound control.</p> <p>F. Steel Corner Fasteners (Item 4), Fiber, Sprayed (Items 5A and 5B) and Steel Framing Members (Item 6A), not evaluated as alternatives for obtaining STC rating.</p> <p>10. Wall and Partition Facings and Accessories* — (Optional, Not Shown) — Nominal 1/2 in. thick, 4 ft wide panels, for optional use as an additional layer on one or both sides of the assembly. Panels attached in accordance with manufacturer's recommendations. When the QR-500 or QR-510 panel is installed between the wood framing and the UL Classified gypsum board, the required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.</p> <p>PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock QR-500 and QR-510</p> <p>11. Cementitious Backer Units* — (Optional Item Not Shown — For Use On Face Of 1 Hr Systems With All Standard Items Required) - 7/16 in., 1/2 in., 5/8 in., 3/4 in. or 1 in. thick, min. 32 in. wide. Applied vertically or horizontally with vertical joints centered over studs. Fastened to studs and runners with cement board screws of adequate length to penetrate stud by a minimum of 3/8 in. for steel framing members, and a minimum of 3/4 in. for wood framing members spaced a max of 8 in. OC. When 4 ft. wide boards are used, horizontal joints need not be backed by framing.</p> <p>12. Non-Bearing Wall Partition Intersection — (Optional) — Two nominal 2 by 4 in. studs or nominal 2 by 6 in. studs nailed together with two 3 in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.</p> <p>13. Mesh Netting — (Not Shown) — Any thin, woven or non-woven fibrous netting material attached with staples to the outer face of one row of studs to facilitate the installation of the sprayed fiber from the opposite row.</p> <p>14. Mineral and Fiber Board* — (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with 2 in. long Type W steel screws, spaced 12 in. OC. The required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.</p> <p>HOMASOTE CO — Homasote Type 440-32</p> <p>14A. Mineral and Fiber Board* — (Optional, Not Shown) — For use with Items 14B-14E) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with minimum 1-3/8 in. long ring shanked nails or 1-1/4 in. long Type W steel screws, spaced 12 in. OC along board edges and 24 in. OC in field of board along intermediate framing. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.</p> <p>HOMASOTE CO — Homasote Type 440-32</p> <p>14B. Glass Fiber Insulation — (For use with Item 14A) — 3-1/2 in., thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, placed to fill the interior of the wall. See Batts and Blankets (BKNV or BZJZ) categories for names of Classified companies.</p> <p>14C. Batts and Blankets* — (As an alternate to Item 14B, For use with Item 14A), 3 in. thick mineral wool batts, placed to fill interior of wall, attached to the 3-1/2 in. face of the studs with staples placed 24 in. OC.</p> <p>THERMAFIBER INC — Type SAFB, SAFB FF</p> <p>16/19 productspecul.com/document.php?id=BXUV/U305</p>
<p>4/16/2019 U305 - BXUV/U305 - UL Product Spec</p> <p>screws at 8 in. OC at perimeter and in the field with the last two screws 4 and 3/4 in. from the edges of the board when applied as the base layer. When used in widths other than 48 in., gypsum panels are to be installed horizontally.</p> <p>3S. Gypsum Board* — 3/4 in. thick paper or vinyl surfaced, with beveled, square, or tapered edges, applied either horizontally or vertically. Gypsum panels secured as described in Item 3 with nail length increased to 2 in.</p> <p>PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type PG-13</p> <p>3T. Wall and Partition Facings and Accessories* — (As an alternate to 5/8 in. thick board as outlined in Item 3) — Nominal 1-3/8 in. thick, 4 ft wide panels, applied vertically or horizontally. Fastened with #6 x 2 in. long drywall screws spaced 8 in. OC along the perimeter and 12 in. OC in the field.</p> <p>PABCO BUILDING PRODUCTS L L C, DBA PABCO GYPSUM — Type QuietRock 545</p> <p>4. Steel Corner Fasteners — (Optional) — For use at wall corners. Channel shaped, 2 in. long by 1 in. high on the back side with two 1/8 in. wide cleats protruding into the 5/8 in. wide channel, fabricated from 24 gauge galv steel. Fasteners applied only to the end or cut edge (not along tapered edges) of the gypsum board, no greater than 2 in. from corner of gypsum board, max spacing 16 in. OC. Nailed to adjacent stud through tab using one No. 6d cement coated nail per fastener. Corners of wall board shall be nailed to top and bottom plate using No. 6d cement coated nails.</p> <p>5. Batts and Blankets* — (Optional — Required when Item 6A is used (RC-1)) — Glass fiber or mineral wool insulation. Placed to completely or partially fill the stud cavities. When Item 6A is used, glass fiber or mineral wool insulation shall be friction-fitted to completely fill the stud cavities.</p> <p>CERTAINTED CORP</p> <p>JOHNS MANVILLE</p> <p>KNAUF INSULATION LLC</p> <p>MANSON INSULATION INC</p> <p>OWENS CORNING HT INC, DIV OF OWENS CORNING — Corning Fiberglas Corp</p> <p>ROCK WOOL MANUFACTURING CO — Delta Board</p> <p>ROCKWOOL — Acoustical Fire Batts</p> <p>THERMAFIBER INC — Type SAFB, SAFB FF</p> <p>productspecul.com/document.php?id=BXUV/U305</p>	<p>4/16/2019 U305 - BXUV/U305 - UL Product Spec</p> <p>5G. Fiber, Sprayed* — (Optional, Not Shown — Not for use with Items 6, 6A, 6B, 6C, or 6D) — As an alternate to Batts and Blankets (Item 5) and Item 5A - Brown Colored Spray applied cellulose fiber. The fiber is applied with water to completely fill the enclosed stud cavity in accordance with the application instructions supplied with the product. The minimum dry density shall be 4.30 lbs/ft³.</p> <p>INTERNATIONAL CELLULOSE CORP — Celbar-RL</p> <p>5H. Foamed Plastic* — (Optional -For use with Item 3R) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity.</p> <p>SES FOAM INC — Nexseal™ 2.0 or Nexseal™ 2.0 LE Spray Foam and Sucraseal Spray Foam.</p> <p>5I. Fiber, Sprayed* — (Not Shown — Not for use with Item 6) — As an alternate to Batts and Blankets (Item 5) - Spray-applied cellulose material. The fiber is applied with water to completely fill the enclosed cavity in accordance with the application instructions supplied with the product. To facilitate the installation of the material, any thin, woven or non-woven netting may be attached by any means possible to the outer face the studs. The material shall reach equilibrium moisture content before the installation of materials on either face of the studs. The minimum dry density shall be 5.79 lbs/ft³.</p> <p>APPLEGATE HOLDINGS L L C — Type 1 SAFE Applegate Fired Rated Material</p> <p>6. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:</p> <p>a. Furring Channels — Formed of No. 25 MSG galv steel, 2-9/16 in. or 2-23/32 in. wide by 7/8 in. deep, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels are overlapped 6 in. and tied together with double strand of No. 18 SWG galv steel wire near each end of overlap. As an alternate, ends of adjoining channels may be overlapped 6 in. and secured together with two self-tapping #6 framing screws, min. 7/16 in. long at the midpoint of the overlap, with one screw on each flange of the channel. Gypsum board attached to furring channels as described in Item 3.</p> <p>b. Steel Framing Members* — Used to attach furring channels (Item 6a) to studs. Clips spaced 48 in. OC. RSIC-1 and RSIC-1 (2.75) clips secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.</p> <p>RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.</p> <p>12/19 productspecul.com/document.php?id=BXUV/U305</p>	<p>4/16/2019 U305 - BXUV/U305 - UL Product Spec</p> <p>described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 3.</p> <p>b. Steel Framing Members* — Used to attach furring channels (Item 6Ca) to studs. Clips spaced 48 in. OC., and secured to studs with No. 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips.</p> <p>STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R</p> <p>6D. Steel Framing Members* — (Optional, Not Shown) — Furring channels and Steel Framing Members as described below:</p> <p>a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with a double strand of No. 18 AWG twisted steel wire. Gypsum board attached to furring channels as described in Item 3.</p> <p>b. Steel Framing Members* — Used to attach furring channels (Item 6Da) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.</p> <p>REGUPOL AMERICA — Type SonusClip</p> <p>6E. Steel Framing Members* — (Optional, Not Shown) — Resilient channels and Steel Framing Members as described below:</p> <p>a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Phillips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 3.</p> <p>b. Steel Framing Members* — Used to attach resilient channels (Item 6Ea) to studs. Clips spaced 48 in. OC., and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.</p> <p>KEENE BUILDING PRODUCTS CO INC - Type RC+ Assurance Clip</p> <p>14/19 productspecul.com/document.php?id=BXUV/U305</p>	<p>4/16/2019 U305 - BXUV/U305 - UL Product Spec</p> <p>NATIONAL GYPSUM CO — Type DuraBacker, PermaBase, DuraBacker Plus, or PermaBase Plus</p> <p>12. Non-Bearing Wall Partition Intersection — (Optional) — Two nominal 2 by 4 in. studs or nominal 2 by 6 in. studs nailed together with two 3 in. long 10d nails spaced a max. 16 in. OC. vertically and fastened to one side of the minimum 2 by 4 in. stud with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Intersection between partition wood studs to be flush with the 2 by 4 in. studs. The wall partition wood studs are to be framed by with a second 2 by 4 in. wood stud fastened with 3 in. long 10d nails spaced a max. 16 in. OC. vertically. Maximum one non-bearing wall partition intersection per stud cavity. Non-bearing wall partition stud depth shall be at a minimum equal to the depth of the bearing wall.</p> <p>13. Mesh Netting — (Not Shown) — Any thin, woven or non-woven fibrous netting material attached with staples to the outer face of one row of studs to facilitate the installation of the sprayed fiber from the opposite row.</p> <p>14. Mineral and Fiber Board* — (Optional, Not Shown) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with 2 in. long Type W steel screws, spaced 12 in. OC. The required UL Classified gypsum board layer(s) is/are to be installed as indicated as to fastener type and spacing, except that the required fastener length shall be increased by a minimum of 1/2 in. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.</p> <p>HOMASOTE CO — Homasote Type 440-32</p> <p>14A. Mineral and Fiber Board* — (Optional, Not Shown) — For use with Items 14B-14E) — For optional use as an additional layer on one side of wall. Nom 1/2 in. thick, 4 ft wide with long dimension parallel and centered over studs. Attached to framing with minimum 1-3/8 in. long ring shanked nails or 1-1/4 in. long Type W steel screws, spaced 12 in. OC along board edges and 24 in. OC in field of board along intermediate framing. Not evaluated or intended as a substitute for the required layer(s) of UL Classified Gypsum Board.</p> <p>HOMASOTE CO — Homasote Type 440-32</p> <p>14B. Glass Fiber Insulation — (For use with Item 14A) — 3-1/2 in., thick glass fiber batts bearing the UL Classification Marking as to Surface Burning and/or Fire Resistance, placed to fill the interior of the wall. See Batts and Blankets (BKNV or BZJZ) categories for names of Classified companies.</p> <p>14C. Batts and Blankets* — (As an alternate to Item 14B, For use with Item 14A), 3 in. thick mineral wool batts, placed to fill interior of wall, attached to the 3-1/2 in. face of the studs with staples placed 24 in. OC.</p> <p>THERMAFIBER INC — Type SAFB, SAFB FF</p> <p>16/19 productspecul.com/document.php?id=BXUV/U305</p>



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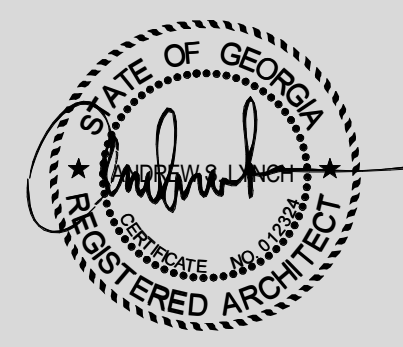
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Revisions

No	Date	Description

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LS103

UL-U305 EXISTING 1 HR ASSEMBLY PAGE 2

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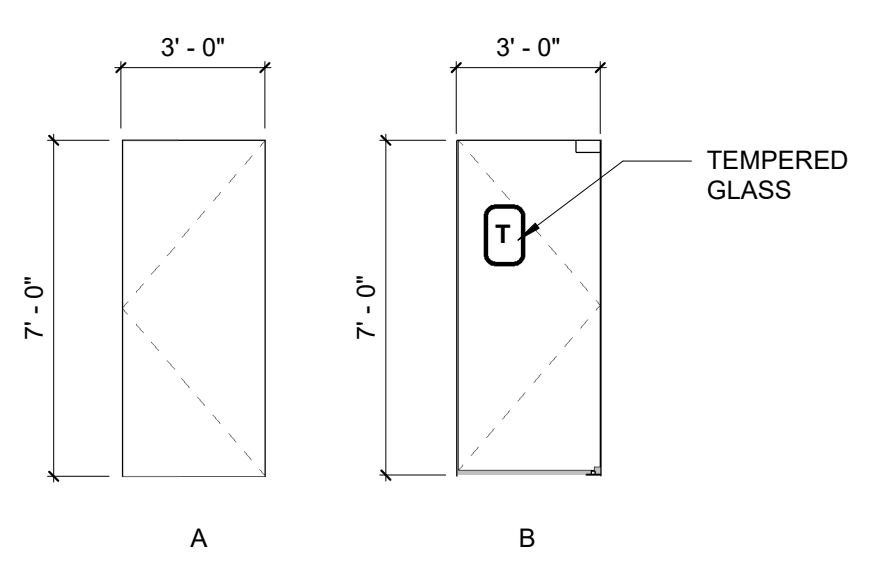
DOOR SCHEDULE

MARK	ROOM NAME	TYPE	SIZE		DOOR		DOOR FRAME			DETAIL REFERENCE		HARDWARE	HARDWARE FINISH	FIRE RATING	COMMENTS
			WIDTH	HEIGHT	MATERIAL	FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	DOOR HEAD/JAMB	DOOR SILL				
103A	WC	A	3'-0"	7'-0"	HM	PTD	1	HM	PTD	G01/A001	A01/A001	HW-3	OIL RUBBED BRONZE		COORD. ENTRY SIGNAGE WITH OWNER
104A	WC	A	3'-0"	7'-0"	HM	PTD	1	HM	PTD	G01/A001	A01/A001	HW-3	OIL RUBBED BRONZE		COORD. ENTRY SIGNAGE WITH OWNER
105A	BOH	B	3'-0"	7'-0"	STAINLESS STEEL	CLEAR ANODIZED	1	BY MANU.	HM	PTD	BY MANU.	BY MANU.	HW-1	STAINLESS STEEL	DOUBLE ACTING KITCHEN SERVICE DOOR W/PORTHOLE WINDOW; B.O.D. ELIASON DSP-3 STAINLESS STEEL TRAFFIC DOOR
106A	OFFICE	A	3'-0"	7'-0"	HM	PTD	1	HM	PTD	G01/A001	A01/A001	HW-2	OIL RUBBED BRONZE		

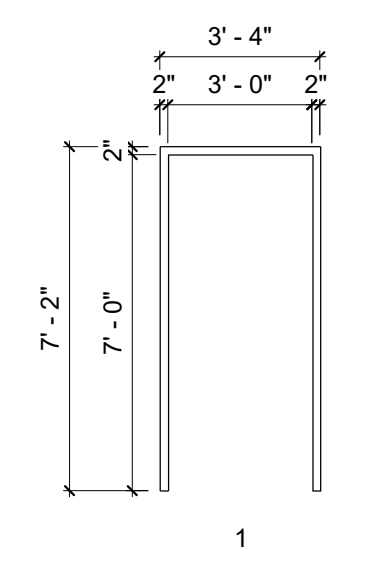
GENERAL DOOR NOTES

- COORDINATE FRAME, JAMB, HEAD, AND SILL WIDTH WITH ACTUAL WALL WIDTH/SIZE.
- ALL DOOR GLAZING TO BE TEMPERED.
- CONTRACTOR TO VERIFY ALL DIMENSIONS AND ROUGH OPENINGS.
- MANUFACTURER TO VERIFY ROUGH OPENING DIMENSIONS PRIOR TO FABRICATION.
- CONTRACTOR TO REPORT ANY DISCREPANCIES IN DIMENSIONS TO ARCHITECT PRIOR TO ORDERING OR INSTALLATION.
- ALL COMMON DOOR THRESHOLDS TO BE ADA COMPLIANT.
- ALL HARDWARE SHALL BE PROVIDED BY A SINGLE HARDWARE SUPPLIER.
- THE CONTRACTOR SHALL SUBMIT A HARDWARE SCHEDULE FOR REVIEW BY THE ARCHITECT PRIOR TO INSTALLATION, WHICH INCLUDES LOCKSETS, HINGES, DEADBOLTS, FLOORSTOPS, AND ANY OTHER HARDWARE.
- COORDINATE KEYING WITH OWNER.
- T = TEMPERED

DOOR TYPES



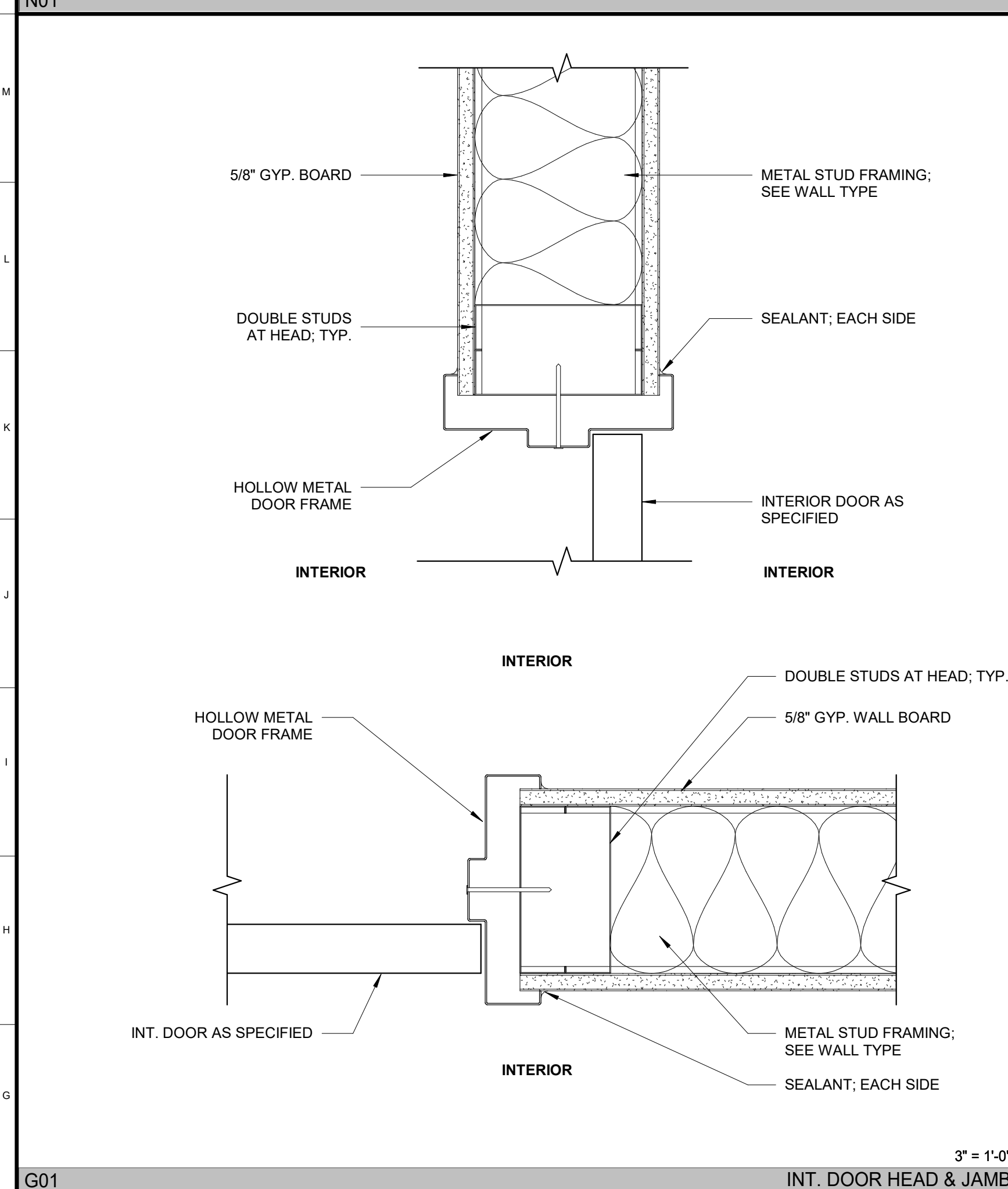
FRAME TYPES



DOOR HARDWARE

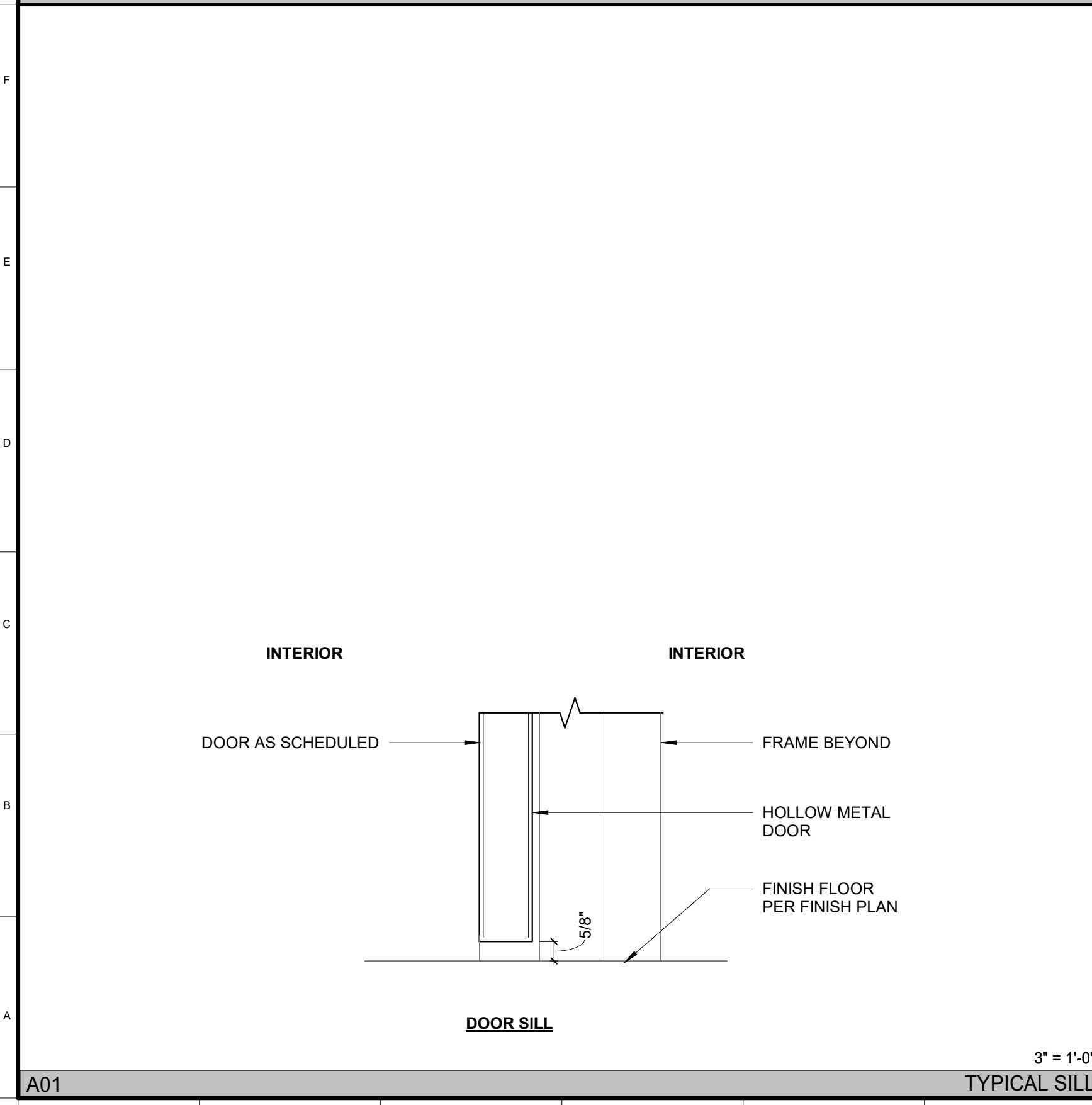
- HW-1:** BOH
 PIVOT SWING HARDWARE
 2 KICKPLATES
 2 DOOR STOPS
 1 DOOR VIEWER
- HW-2:** OFFICE
 3 HINGE
 1 LOCKSET - OFFICE
 1 PUSH/PULL
 1 DOOR CLOSER
 3 SILENCERS
- HW-3:** RESTROOM
 3 HINGE
 1 LOCKSET
 1 DUMMY LEVER
 3 SILENCERS
 1 DOOR CLOSER

DOOR SCHEDULE & NOTES



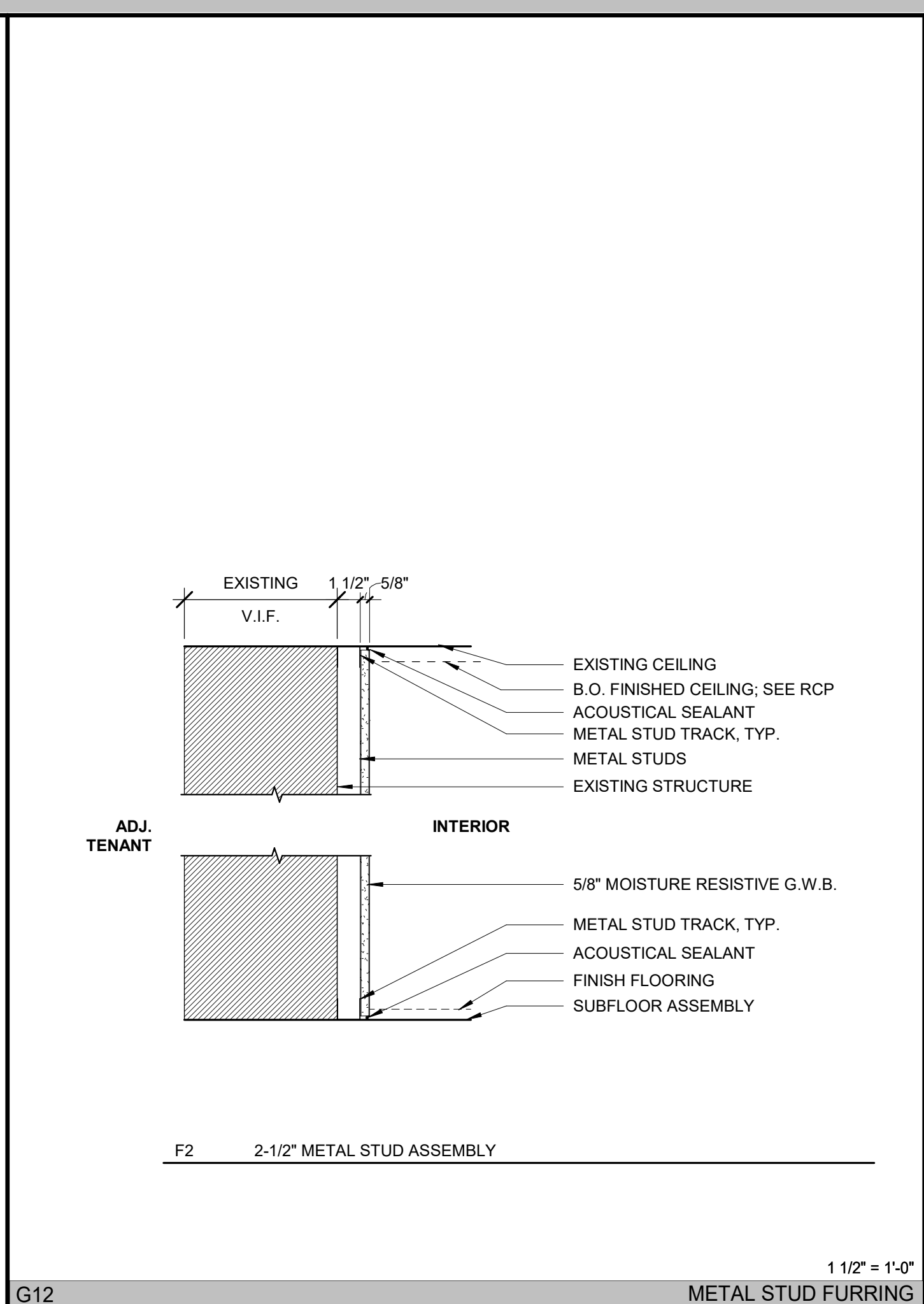
3" = 1'-0"

INT. DOOR HEAD & JAMB

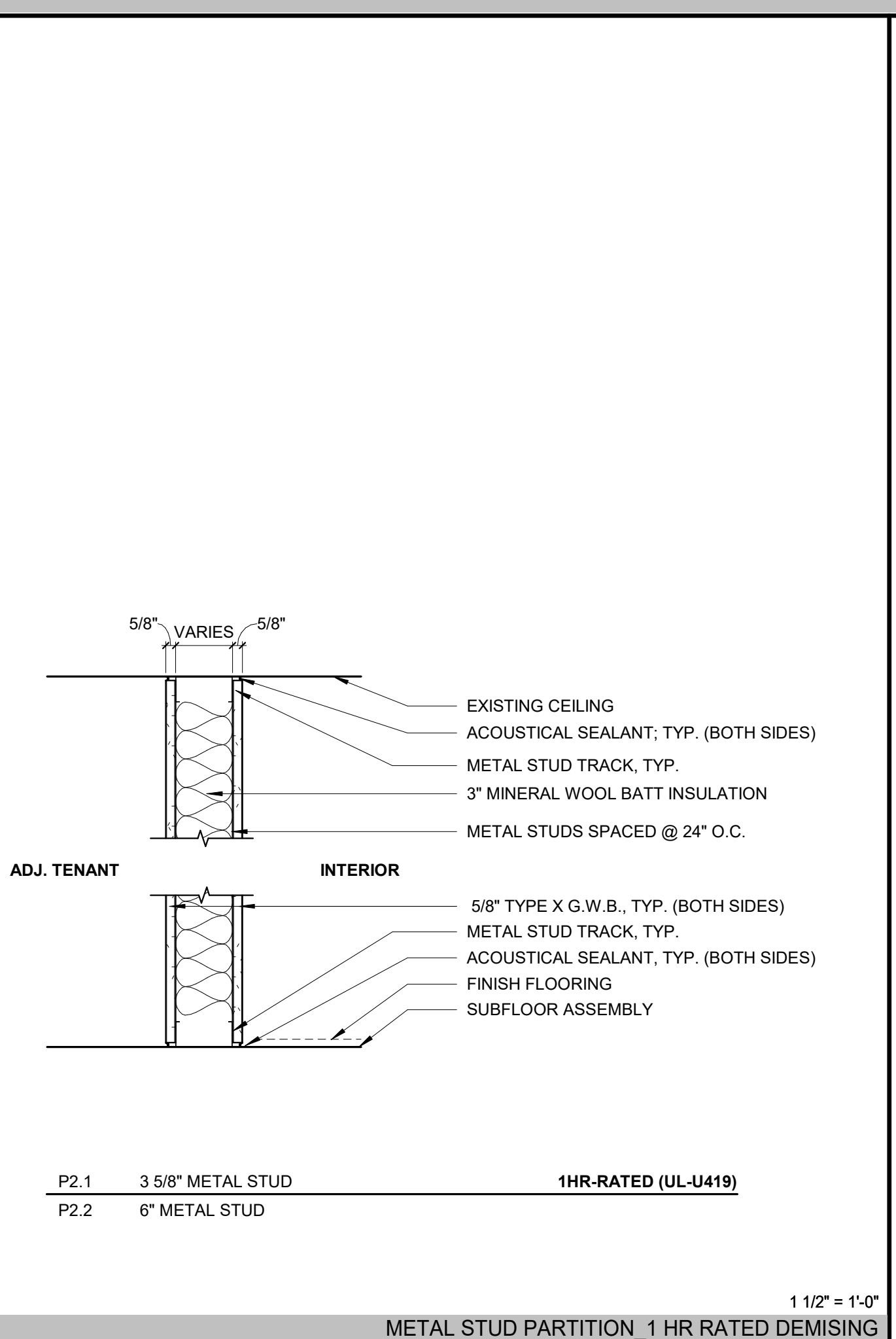


3" = 1'-0"

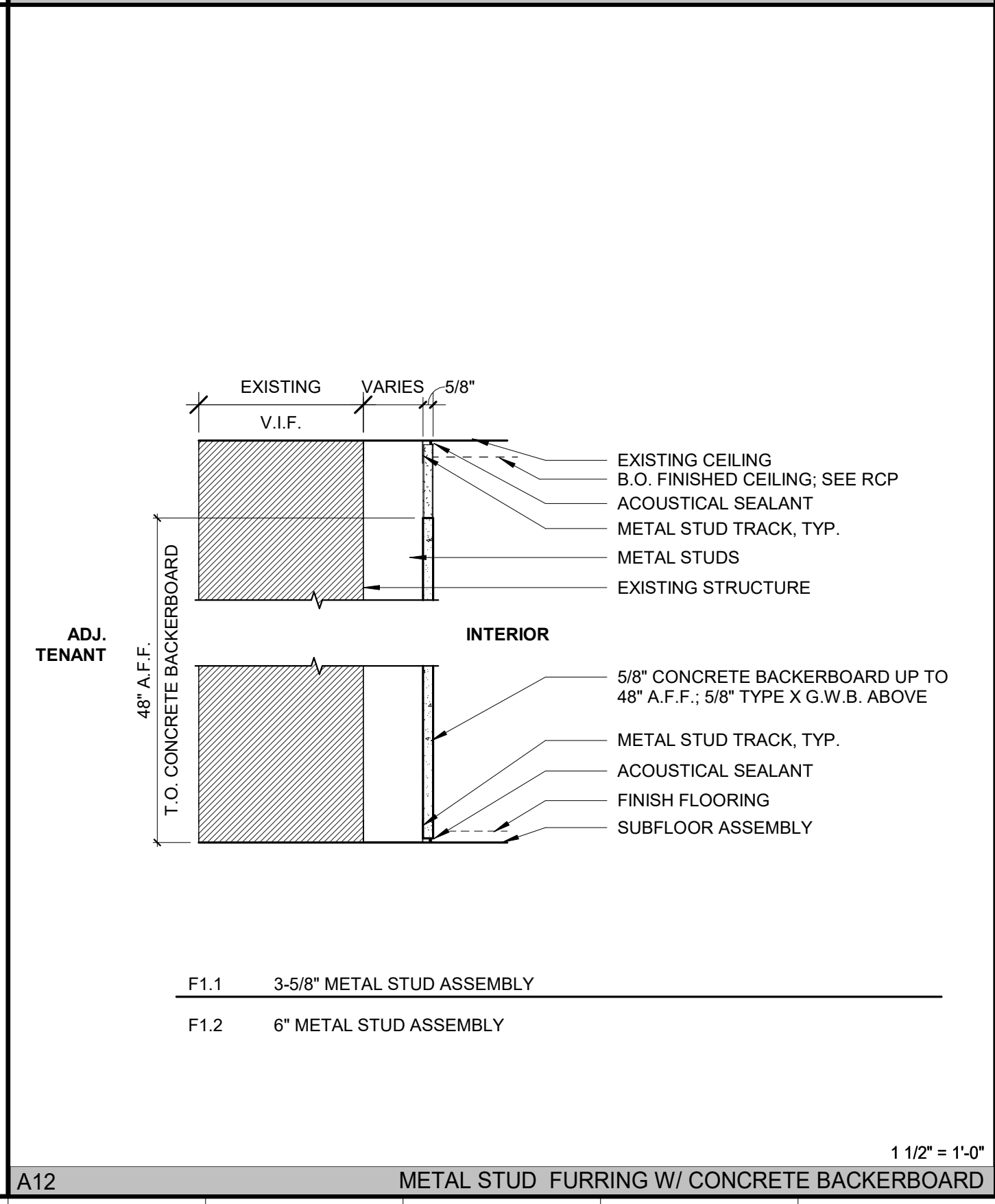
TYPICAL SILL



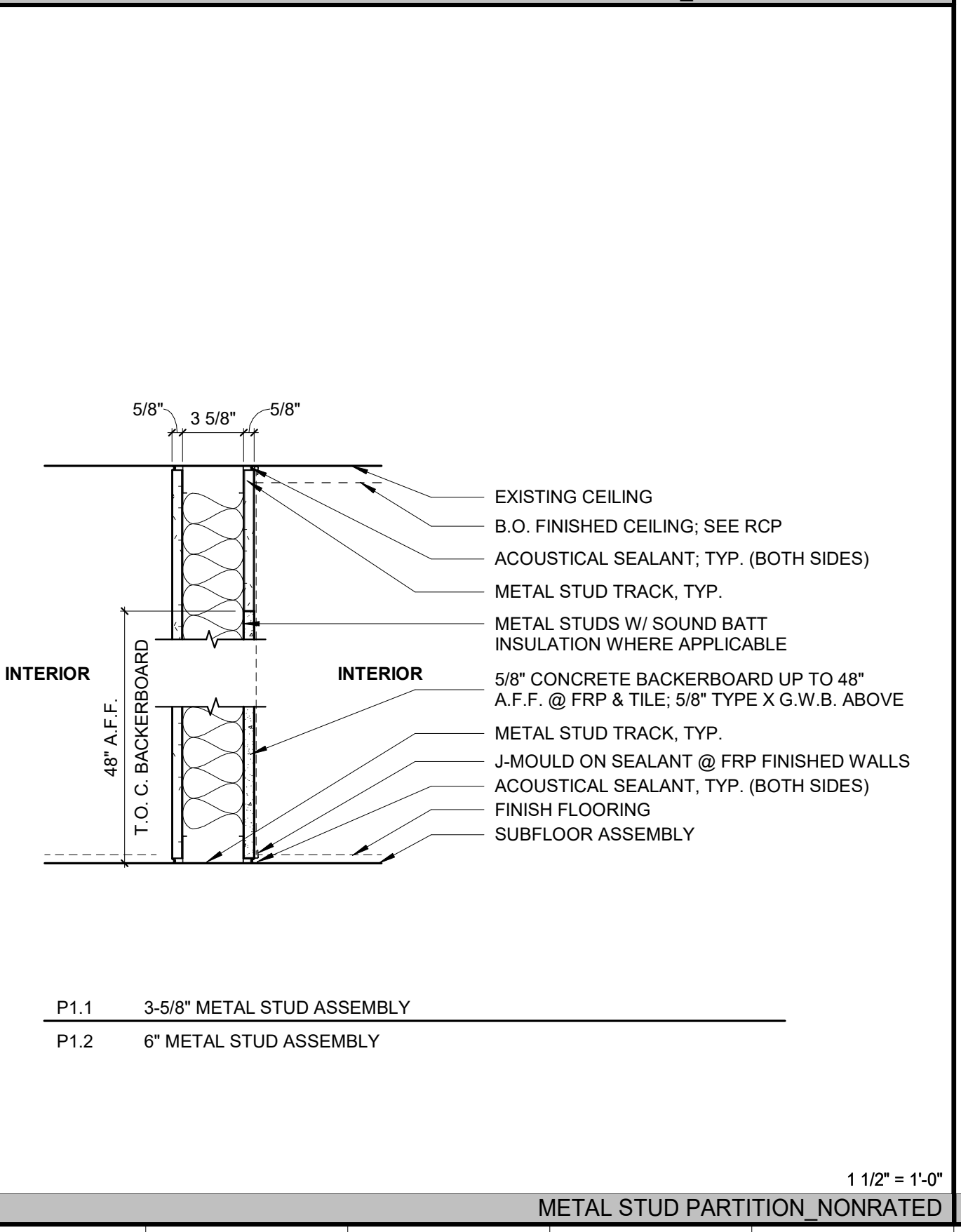
METAL STUD FURRING



METAL STUD PARTITION, 1 HR RATED DEMISING



METAL STUD FURRING W/ CONCRETE BACKERBOARD



METAL STUD PARTITION, NONRATED

GENERAL WALL NOTES

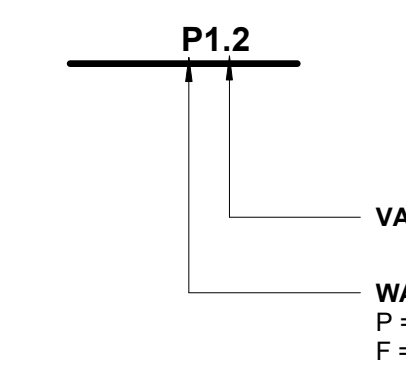
- SEE LIFE SAFETY PLANS FOR RATED WALL LOCATIONS.
- ALL RATED WALLS TO RECEIVE HEAD OF WALL DETAILS COMPLYING WITH LISTED UL DETAILS.
- PROVIDE BATT INSULATION AT ALL DEMISING WALLS AND RESTROOMS.
- USE MOISTURE RESISTIVE GYPSUM WALL BOARD CONTINUOUS FROM FLOOR TO CEILING AT ALL RESTROOM LOCATIONS.

GENERAL ACOUSTICAL NOTES

- ENSURE THAT THE PERIMETER OF ALL FIRE DAMPERS AND FIRE SPRINKLERS ARE COMPLETELY SEALED WITH A RESILIENT, NON-HARDENING CAULK, SUCH AS SILICON OR POLYURETHANE, OR FIRE CAULK.
- RESILIENT CHANNELS AND HAT CHANNELS SHALL NOT BE CRUSHED DURING INSTALLATION. CARE MUST BE TAKEN TO INSTALL THE CHANNELS AND THE DRYWALL IN SUCH A WAY THAT CRUSHING IS AVOIDED. PERFORM FREQUENT INSPECTIONS DURING CONSTRUCTION TO ENSURE THAT THE CHANNELS ARE NOT BEING CRUSHED. USE APPROPRIATE LENGTH SCREWS TO INSURE RESILIENT CHANNEL IS NOT BYPASSED.
- ENSURE THAT PLUMBING PIPES DO NOT DIRECTLY CONTACT WALLS, CEILINGS, AND FLOORS, INCLUDING METAL FRAMING, CONCRETE, AND DRYWALL. THIS IS ESPECIALLY IMPORTANT WITH WASTE PIPES SINCE THEY GENERALLY CREATE THE MOST NOISE. MOUNT THE PIPES WITH FIBERGLASS OR FOAM INSULATION INSTEAD OF RIGIDLY CONNECTING THEM TO ANY BUILDING STRUCTURE OR COMPONENTS. NOTE THAT WASTE PIPES MAY REQUIRE A THICKER WALL CAVITY TO AVOID CONTACT WITH BUILDING ELEMENTS. A MINIMUM OF 1" OF INSULATION SHOULD EXIST BETWEEN ALL PIPING AND THE ADJACENT BACK SURFACE OF THE DRYWALL.

- ENSURE THAT BATHROOM EXHAUST AND DRYER EXHAUST VENTS ARE NOT ROUTED NEAR ANY PLUMBING WASTE PIPES. THEY SHOULD BE IN SEPARATE STUD CAVITIES, SURROUNDED WITH INSULATION, AND WITH NO CONTACT TO THE BACK OF THE DRYWALL, METAL AND WOOD STUDS, OR CONCRETE. IF THE WASTE PIPES ARE NEAR EXHAUST VENTS, THE NOISE CAN EASILY ENTER THE VENT DUCTS AND TRAVEL VERY EFFICIENTLY ALONG THE LENGTH OF THE DUCT AND INTO THE RESIDENCES. THIS IS A COMMON REASON THAT WATER FLOW NOISE IS AUDIBLE.
- IF THE PIPES AND VENTS MUST BE ROUTED NEAR EACH OTHER, THEN THE WASTE PIPES MUST BE WRAPPED WITH AN ACOUSTICAL INSULATION. STANDARD PIPE INSULATION IS NOT SUFFICIENT - IT MUST INCLUDE AN ACOUSTICAL BARRIER WITH A MINIMUM STC RATING OF 26, SUCH AS THE ACOUSTICAL PIPE WRAP MATERIAL SUGGESTED IN THE PRECEDING RECOMMENDATION.
- COMMON MECHANICAL VENT DUCTS SHALL NOT BE USED. THIS INCLUDES BATHROOM EXHAUST VENT DUCTING AND DRYER VENTS.

PARTITION NAMING



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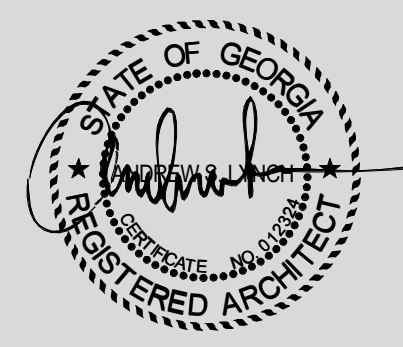
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Revisions

No	Date	Description

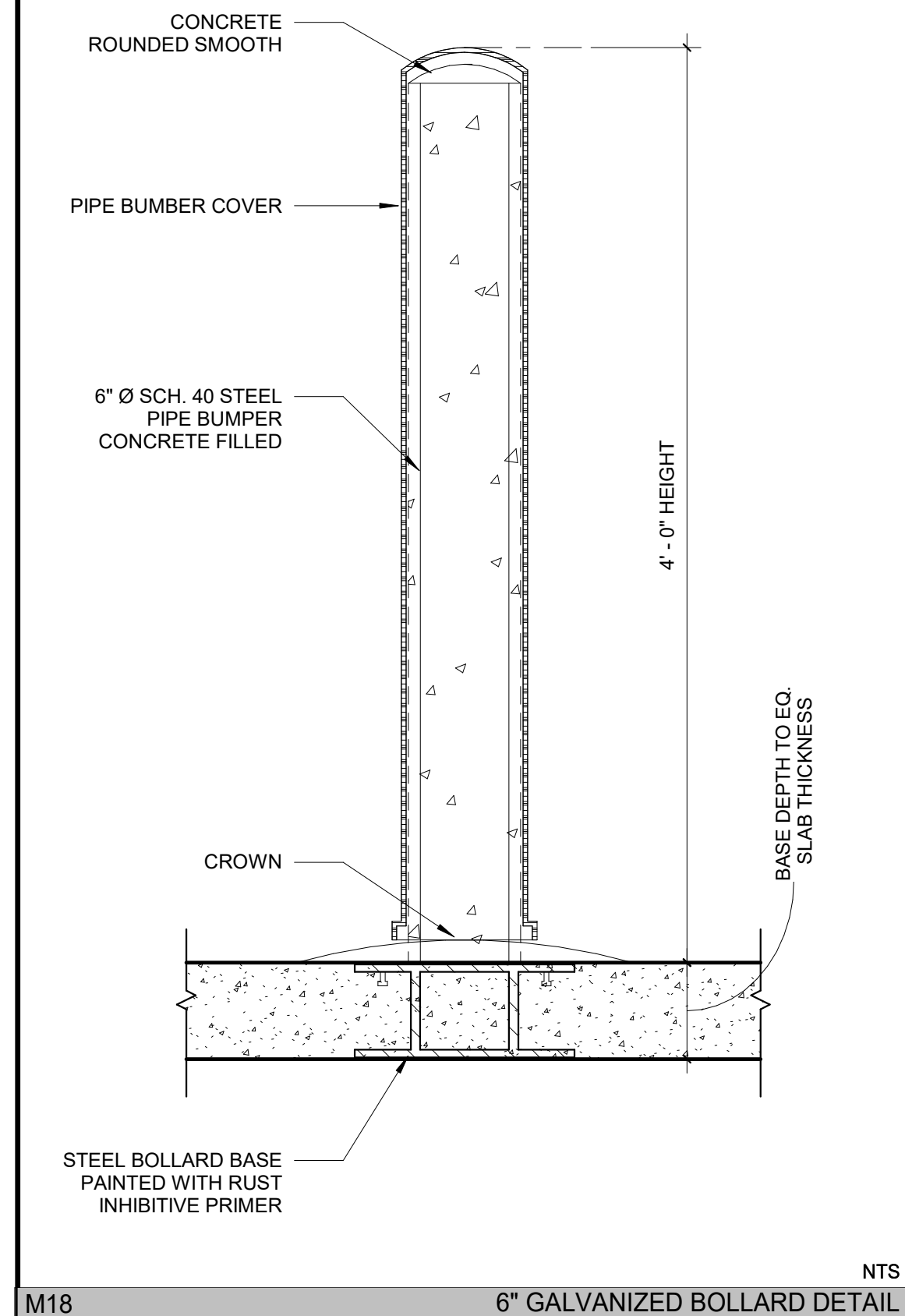
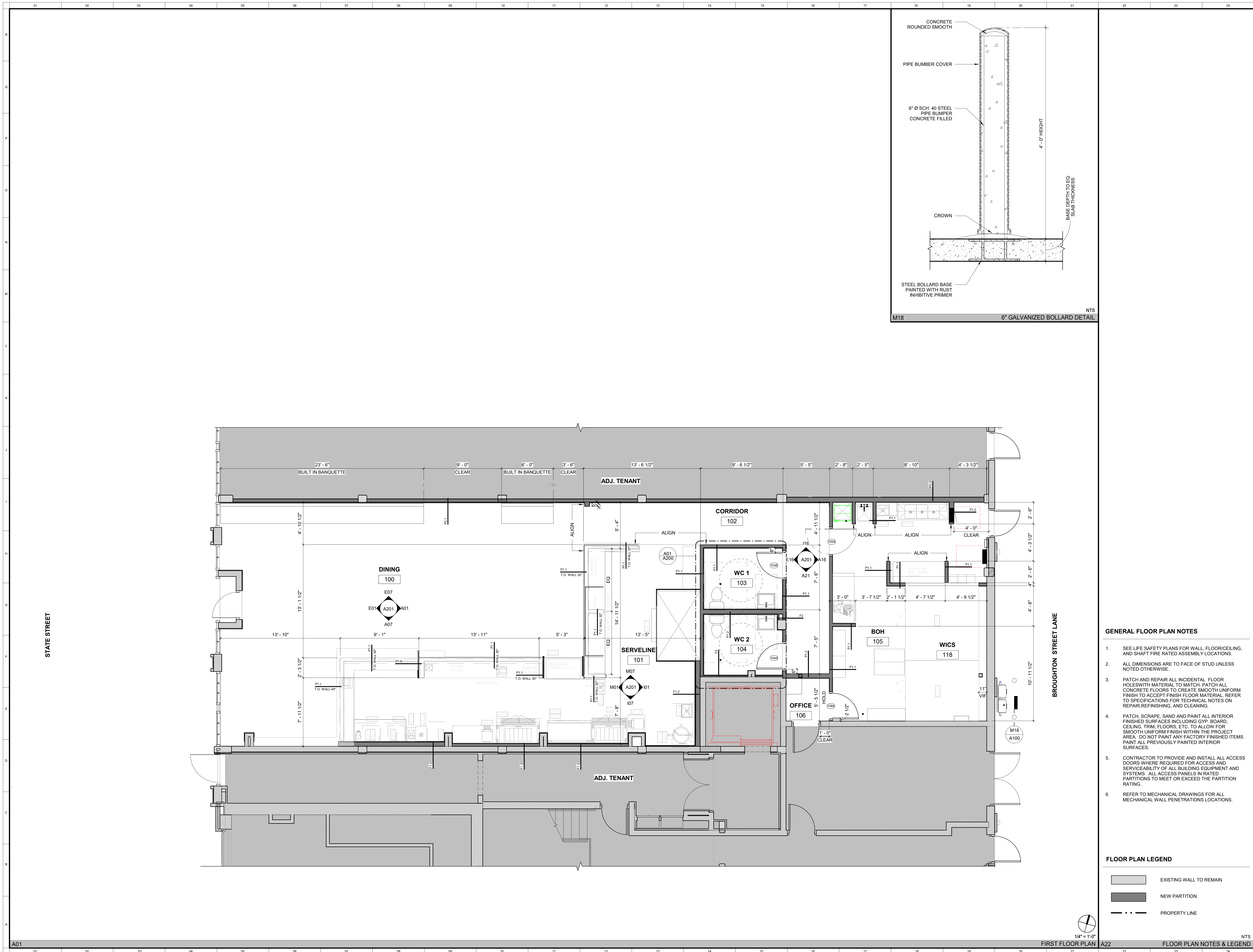
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DOOR SCHEDULE, DETAILS & PARTITION TYPES

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 Project No. 2228.00
 Drawing No.

A001



- GENERAL FLOOR PLAN NOTES**
- SEE LIFE SAFETY PLANS FOR WALL, FLOOR/CEILING, AND SHAFT FIRE RATED ASSEMBLY LOCATIONS.
 - ALL DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
 - PATCH AND REPAIR ALL INCIDENTAL FLOOR HOLES WITH MATERIAL TO MATCH. PATCH ALL CONCRETE FLOORS TO CREATE SMOOTH UNIFORM FINISH TO ACCEPT FINISH FLOOR MATERIAL. REFER TO SPECIFICATIONS FOR TECHNICAL NOTES ON REPAIR, REFINISHING, AND CLEANING.
 - PATCH, SCRAPE, SAND AND PAINT ALL INTERIOR FINISHED SURFACES INCLUDING GYP. BOARD, CEILING, TRIM, FLOORS, ETC. TO ALLOW FOR SMOOTH UNIFORM FINISH WITHIN THE PROJECT AREA. DO NOT PAINT ANY FACTORY FINISHED ITEMS. PAINT ALL PREVIOUSLY PAINTED INTERIOR SURFACES.
 - CONTRACTOR TO PROVIDE AND INSTALL ALL ACCESS DOORS WHERE REQUIRED FOR ACCESS AND SERVICEABILITY OF ALL BUILDING EQUIPMENT AND SYSTEMS. ALL ACCESS PANELS IN RATED PARTITIONS TO MEET OR EXCEED THE PARTITION RATING.
 - REFER TO MECHANICAL DRAWINGS FOR ALL MECHANICAL WALL PENETRATIONS LOCATIONS.

- FLOOR PLAN LEGEND**
- EXISTING WALL TO REMAIN
 - NEW PARTITION
 - PROPERTY LINE



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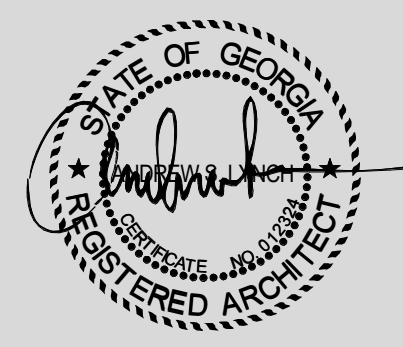
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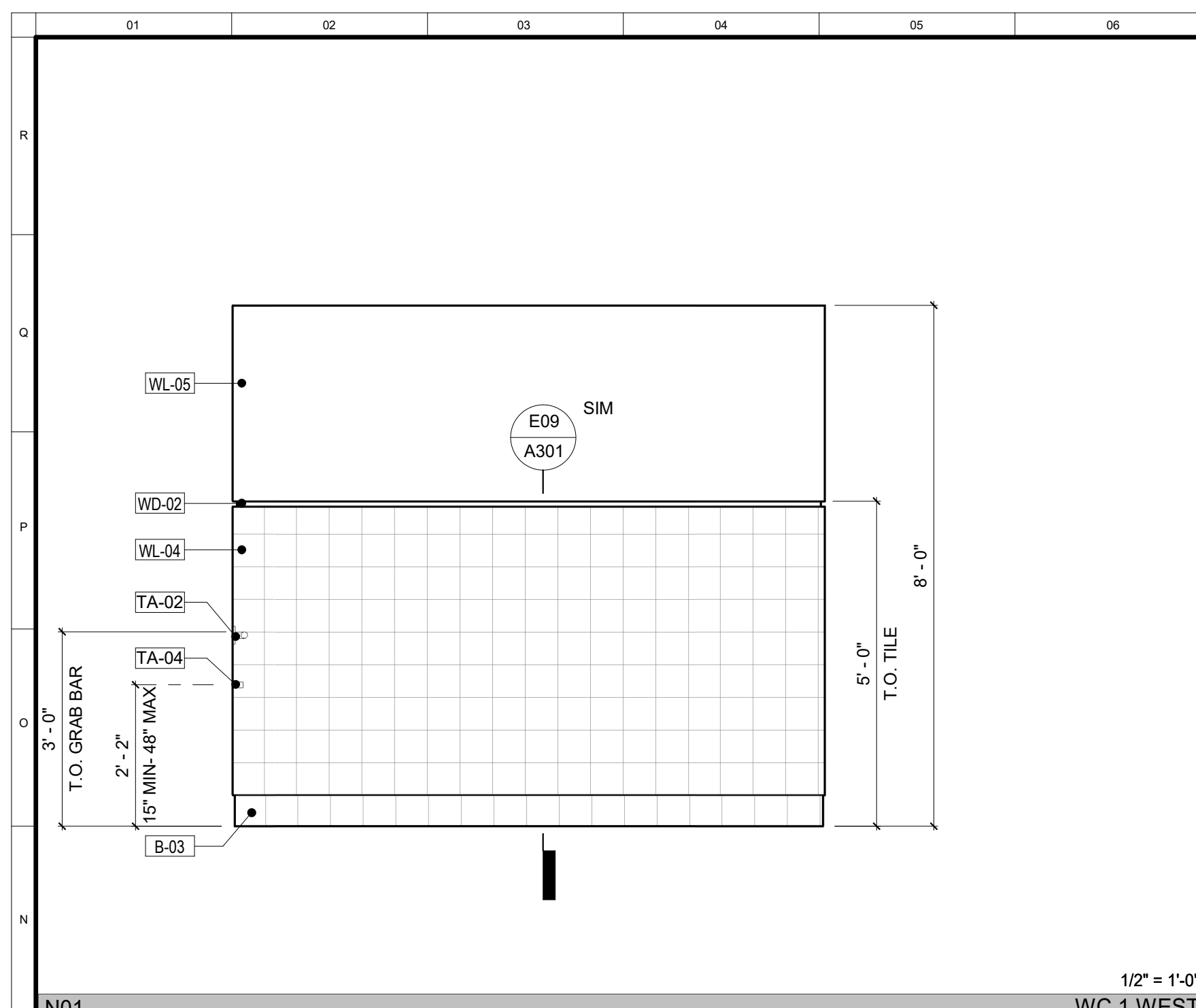


FIRST FLOOR PLAN

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Project No. 2228.00
Drawing No.

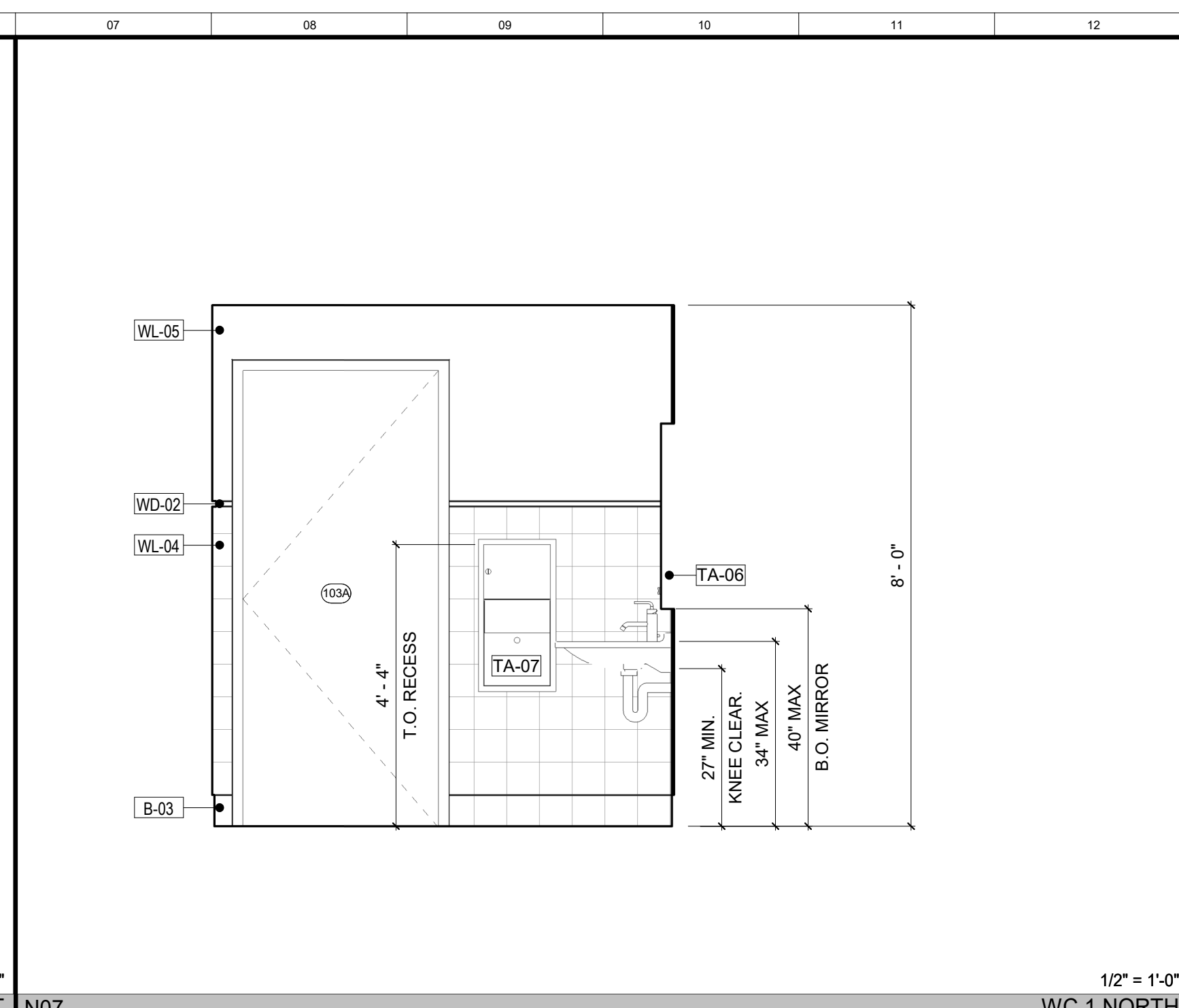
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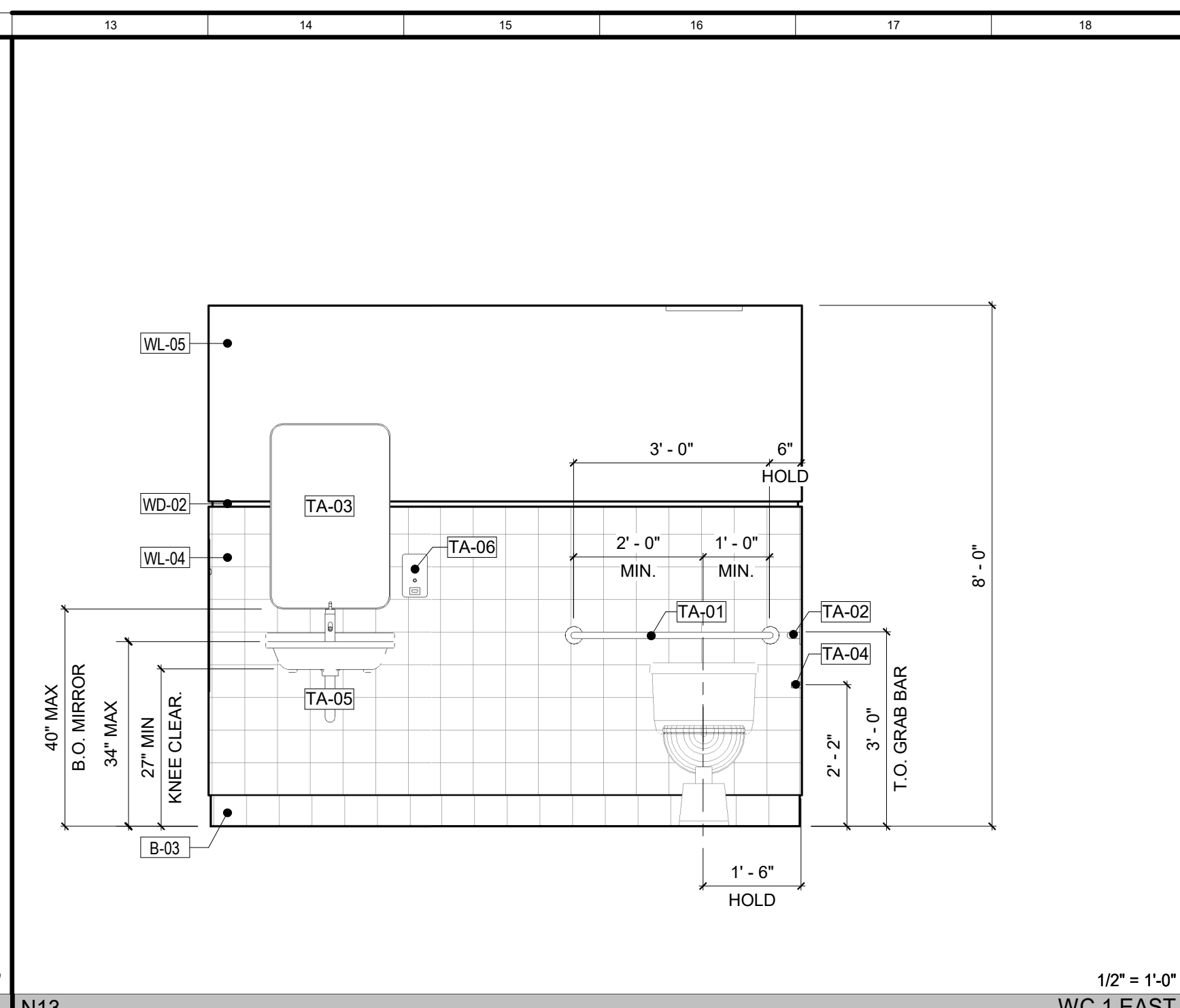
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N01 WC 1 WEST



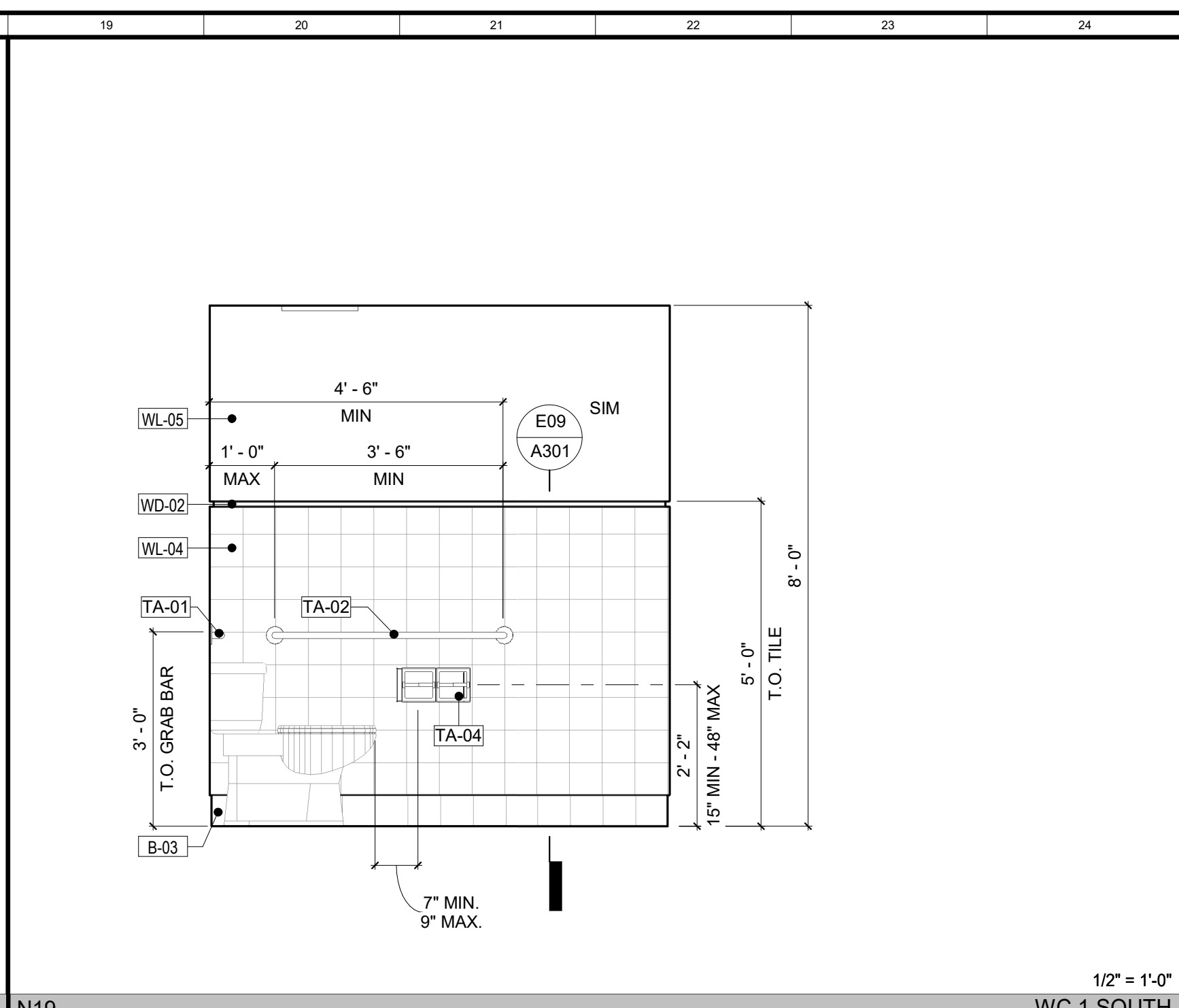
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N07 WC 1 NORTH



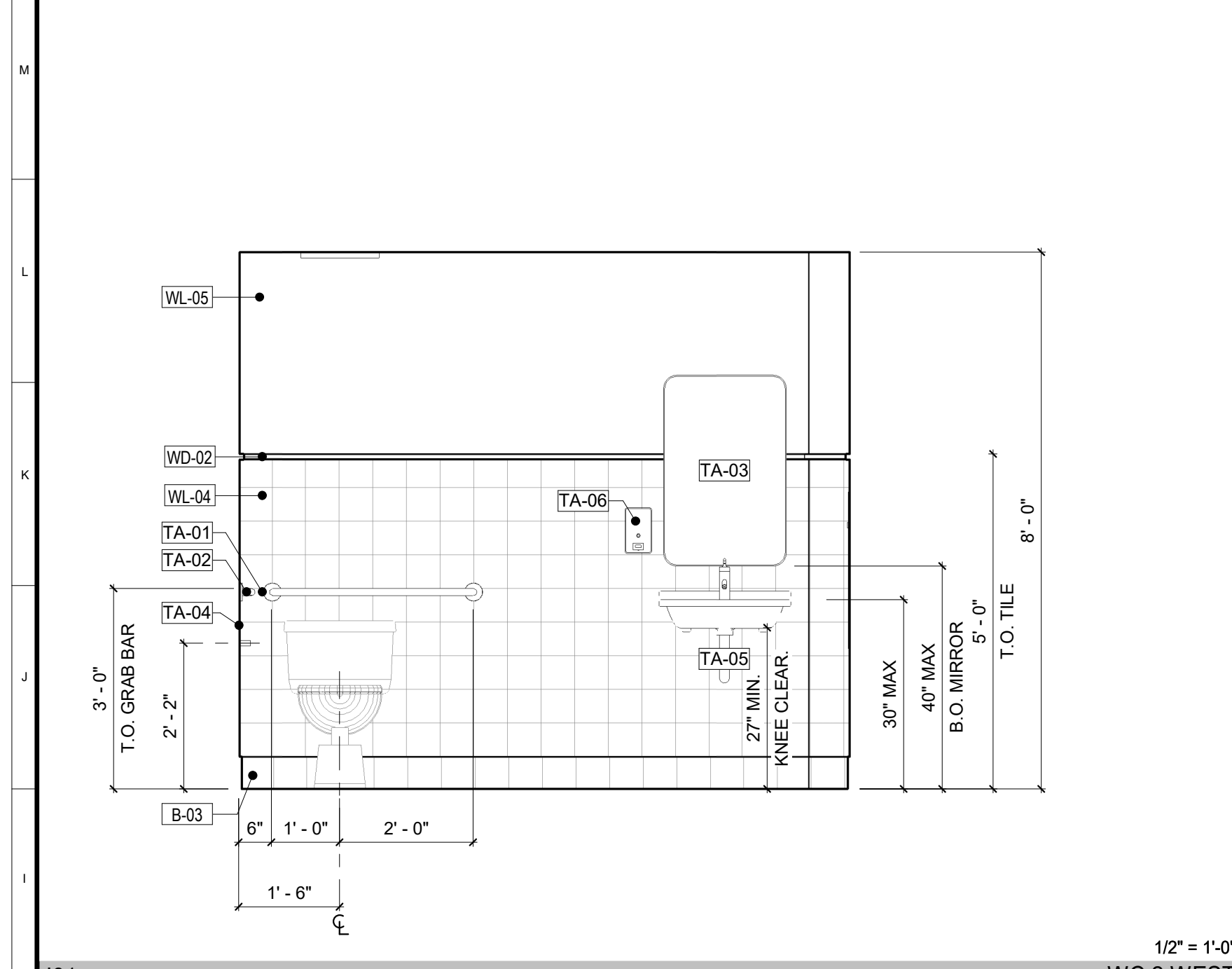
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N13 WC 1 EAST



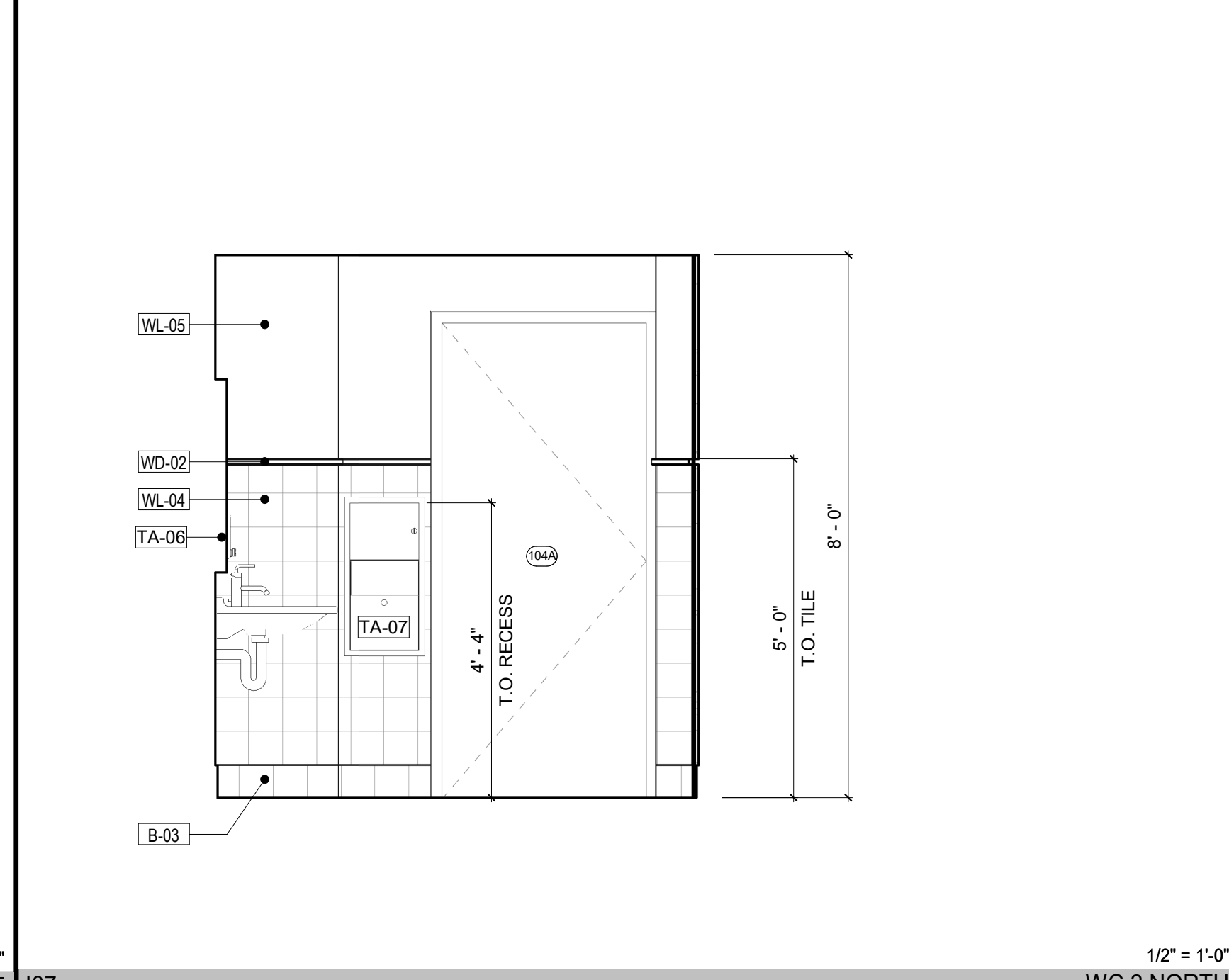
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N19 WC 1 SOUTH



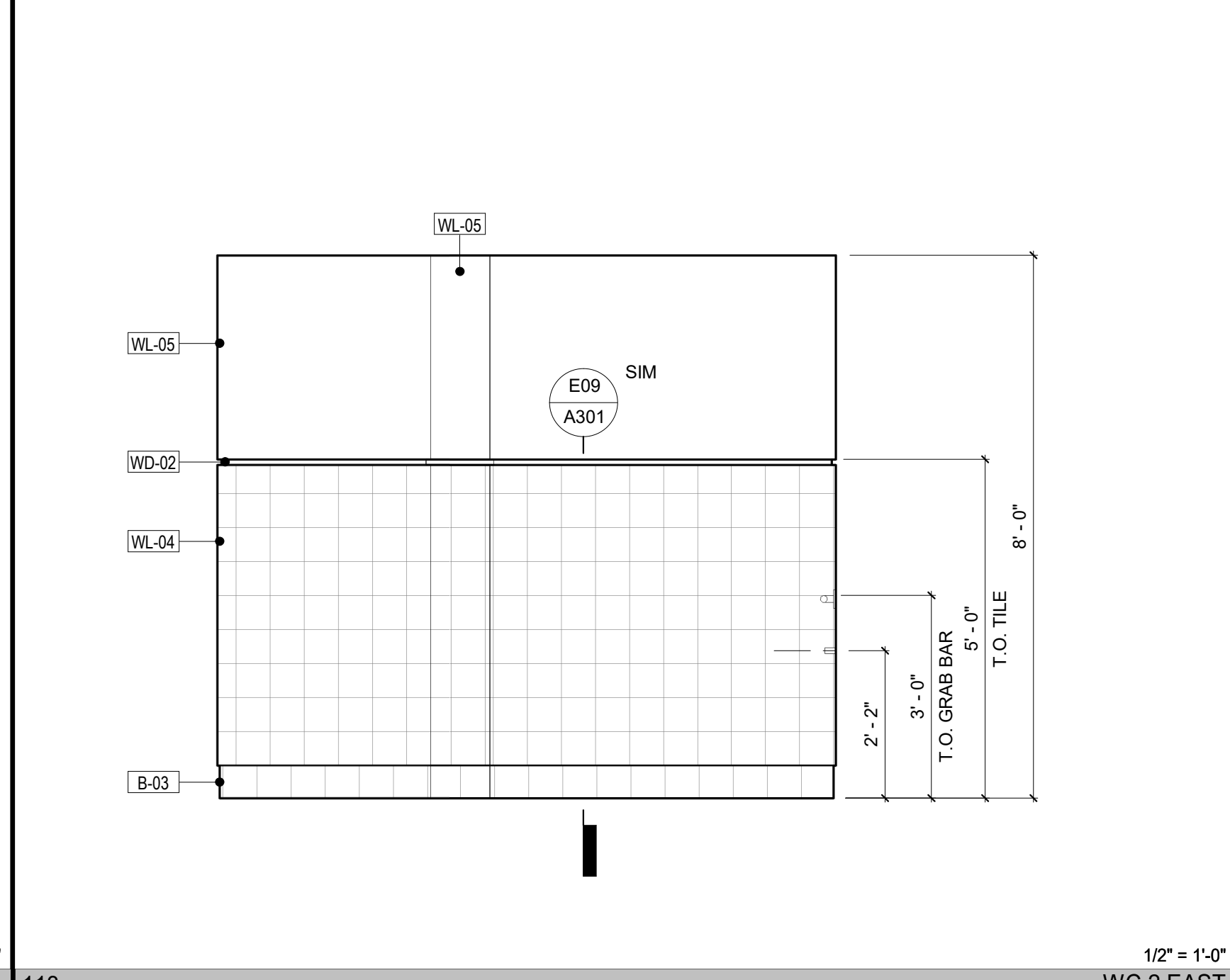
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I01 WC 2 WEST



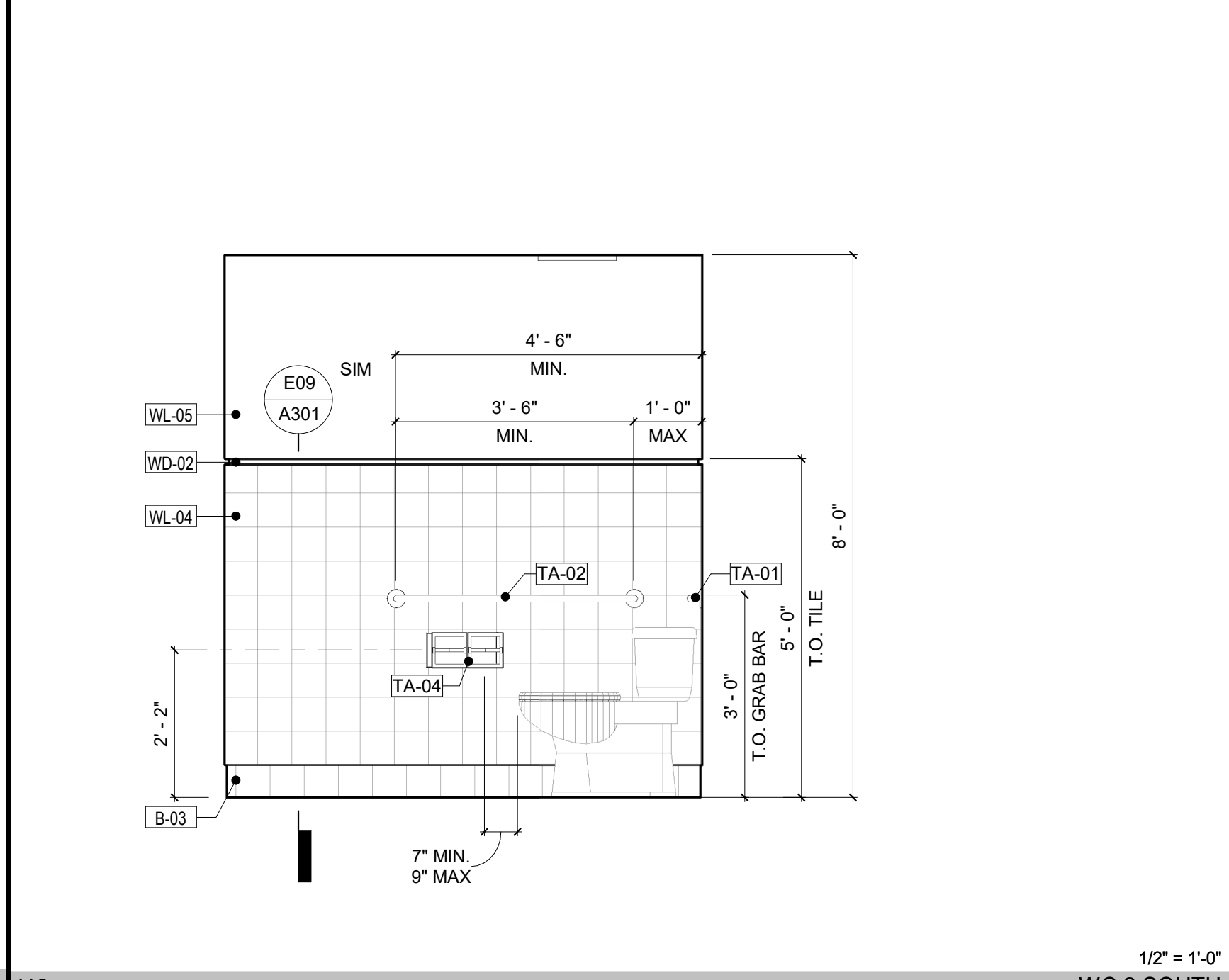
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I07 WC 2 NORTH



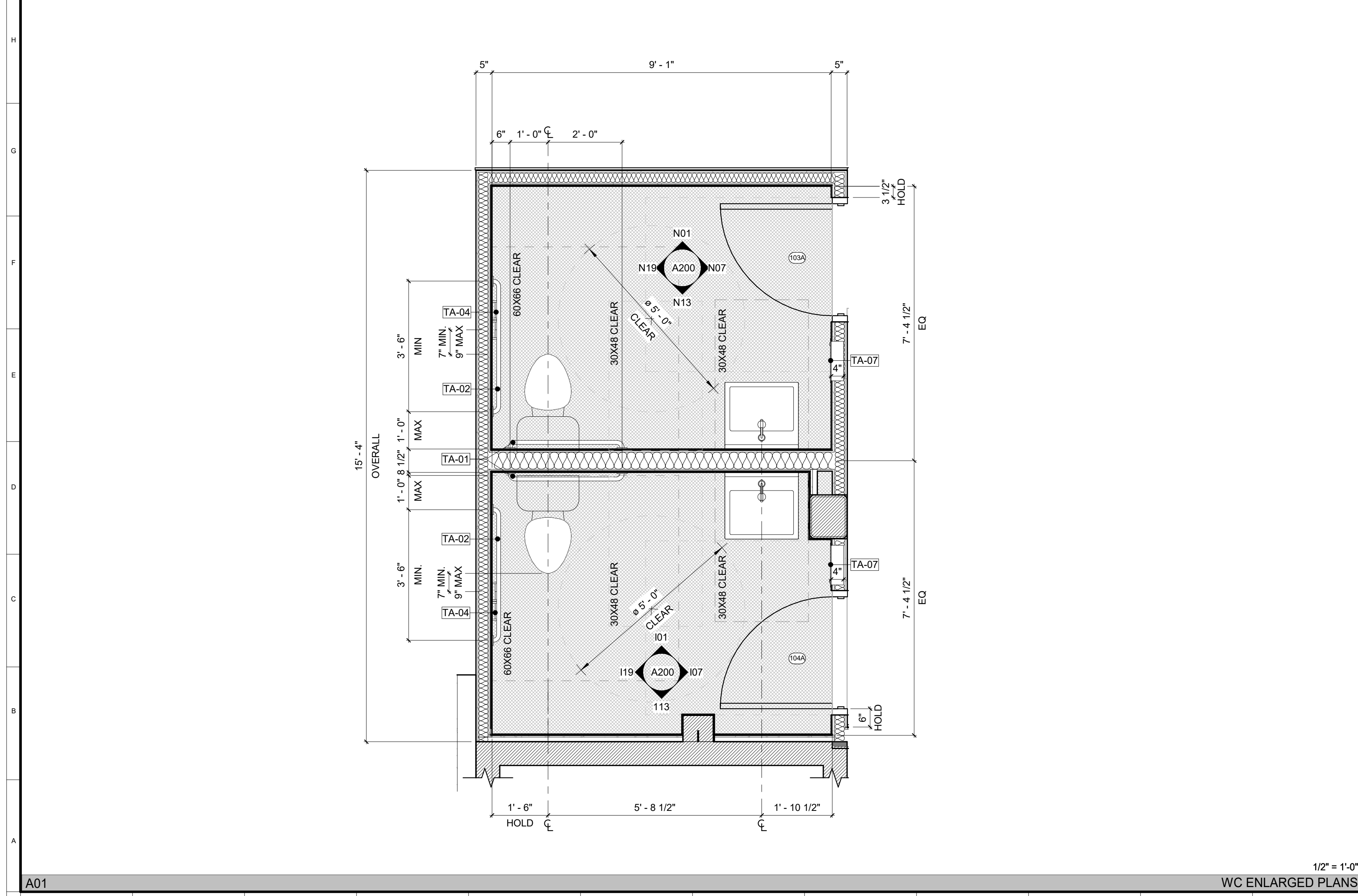
1/2" = 1'-0"

I13 WC 2 EAST



1/2" = 1'-0"

I19 WC 2 SOUTH



1/2" = 1'-0"

A01 WC ENLARGED PLANS

TOILET ACCESSORIES SCHEDULE					
TAG	DESCRIPTION	MODEL	MANUFACTURER	FINISH	COMMENTS
TA-01	STAINLESS STEEL STRAIGHT GRAB BAR - 36"	B-5806	BOBRICK OR APPROVED EQ.	STAINLESS STEEL	
TA-02	STAINLESS STEEL STRAIGHT GRAB BAR -42"	B-5806	BOBRICK OR APPROVED EQ.	STAINLESS STEEL	
TA-03	RECTANGULAR FRAMED MIRROR	ESSENTIAL: K-26052-BNL	KOHLER	STAINLESS STEEL	
TA-04	RECESSED TOILET TISSUE HOLDER	DOUBLE 74022-S	ASI	SATIN STAINLESS STEEL	
TA-05	ADA PIPE WRAP	LAV GUARD 2	TRUEBO		
TA-06	SOAP DISPENSER SURFACE MOUNT - PUSH VALVE	0347	ASI	STAINLESS STEEL	
TA-07	RECESSED PAPER TOWEL DISPENSER & WASTE RECEPTACLE	0462-AD	ASI	STAINLESS STEEL	

* THE WALLS AROUND TOILETS, DRYING DEVICES, TOILET PAPER DISPENSERS AND SOAP DISPENSERS IN TOILET ROOMS SHALL BE WATER RESISTANT AND DURABLE FOR FREQUENT CLEANING. (GDPH 511-6-1-SECTION M-III)

* CONTRACTOR TO PROVIDE PT BLOCKING FOR ALL GRAB BARS AND RR ACCESSORIES.

* CONTRACTOR TO INSULATE ALL PARTITION WALLS AND CEILINGS ABOVE RESTROOM.



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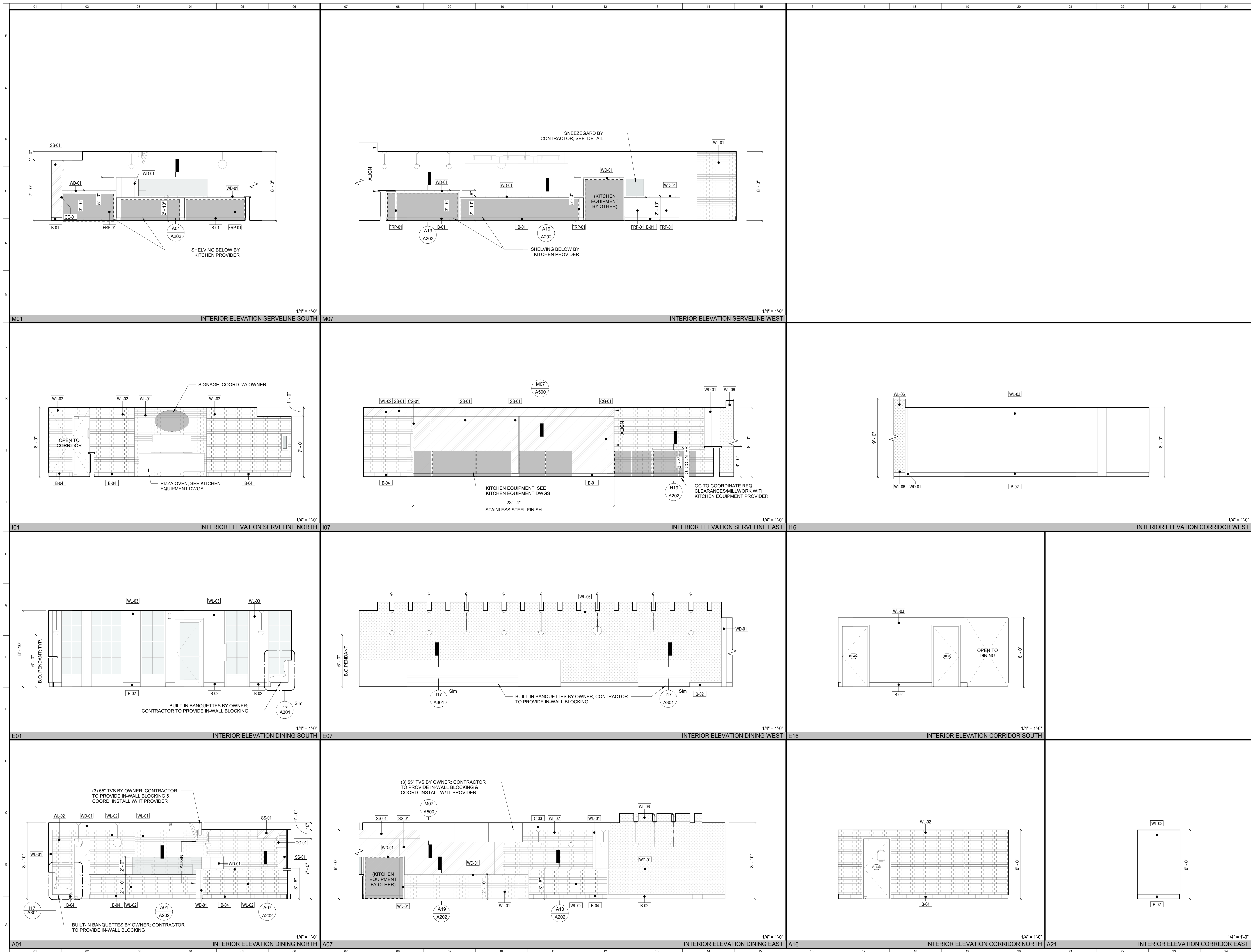
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ENLARGED WC PLANS & ELEVATIONS

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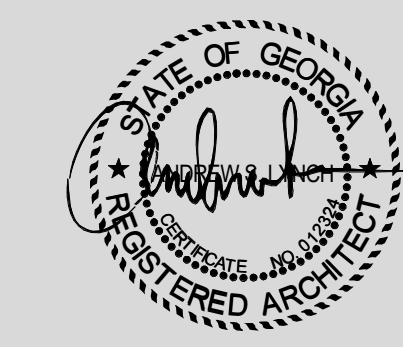
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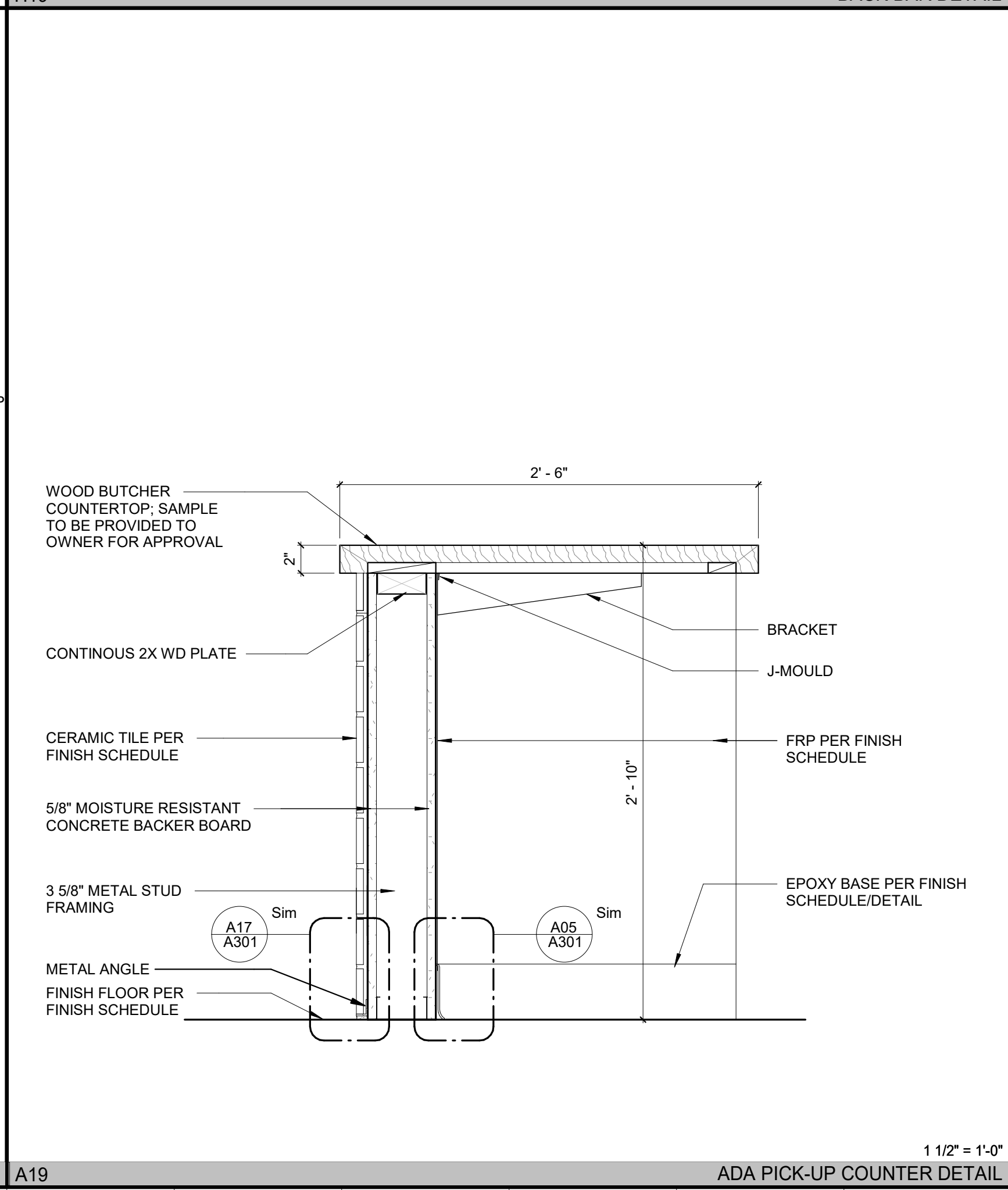
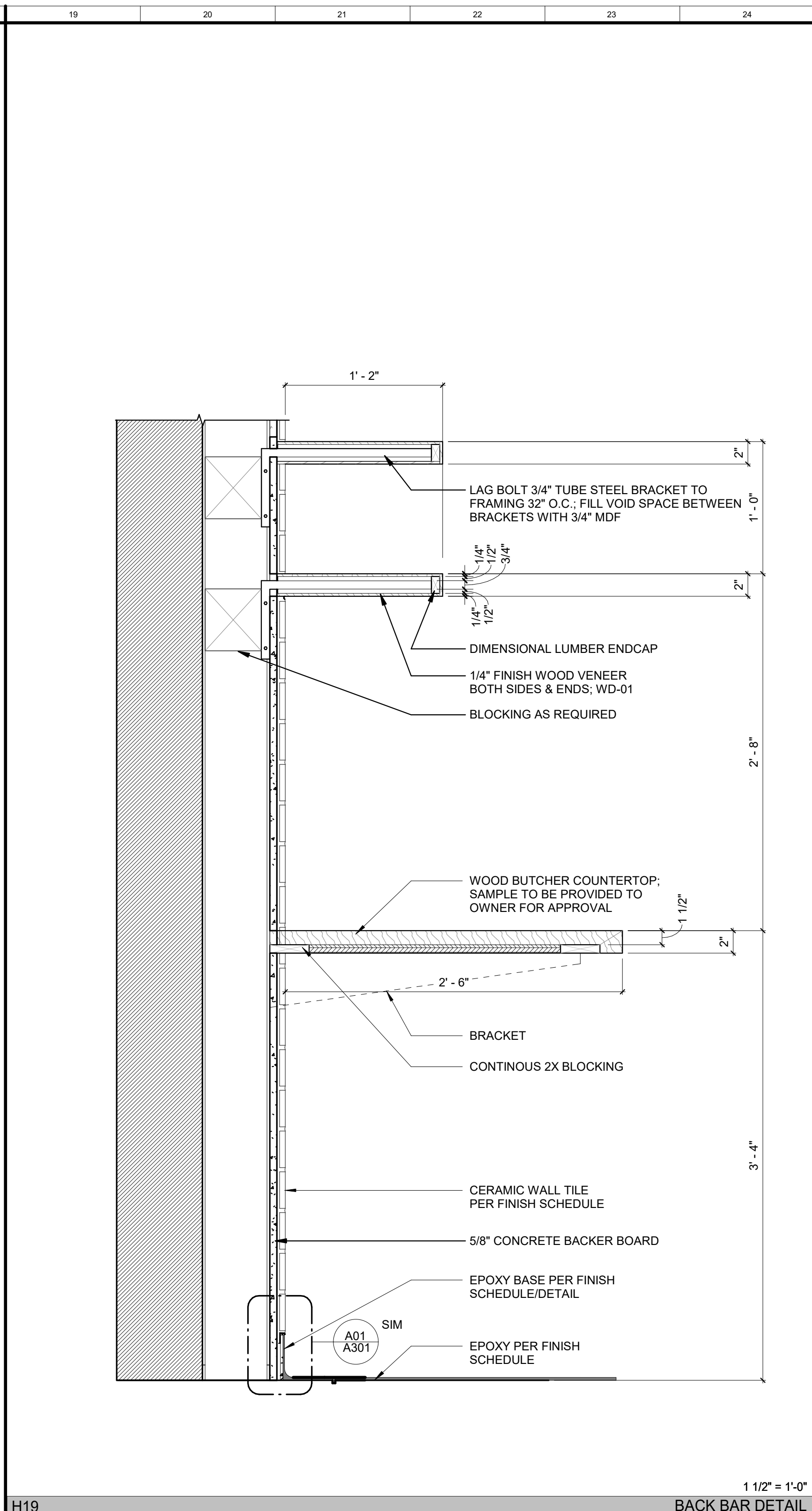
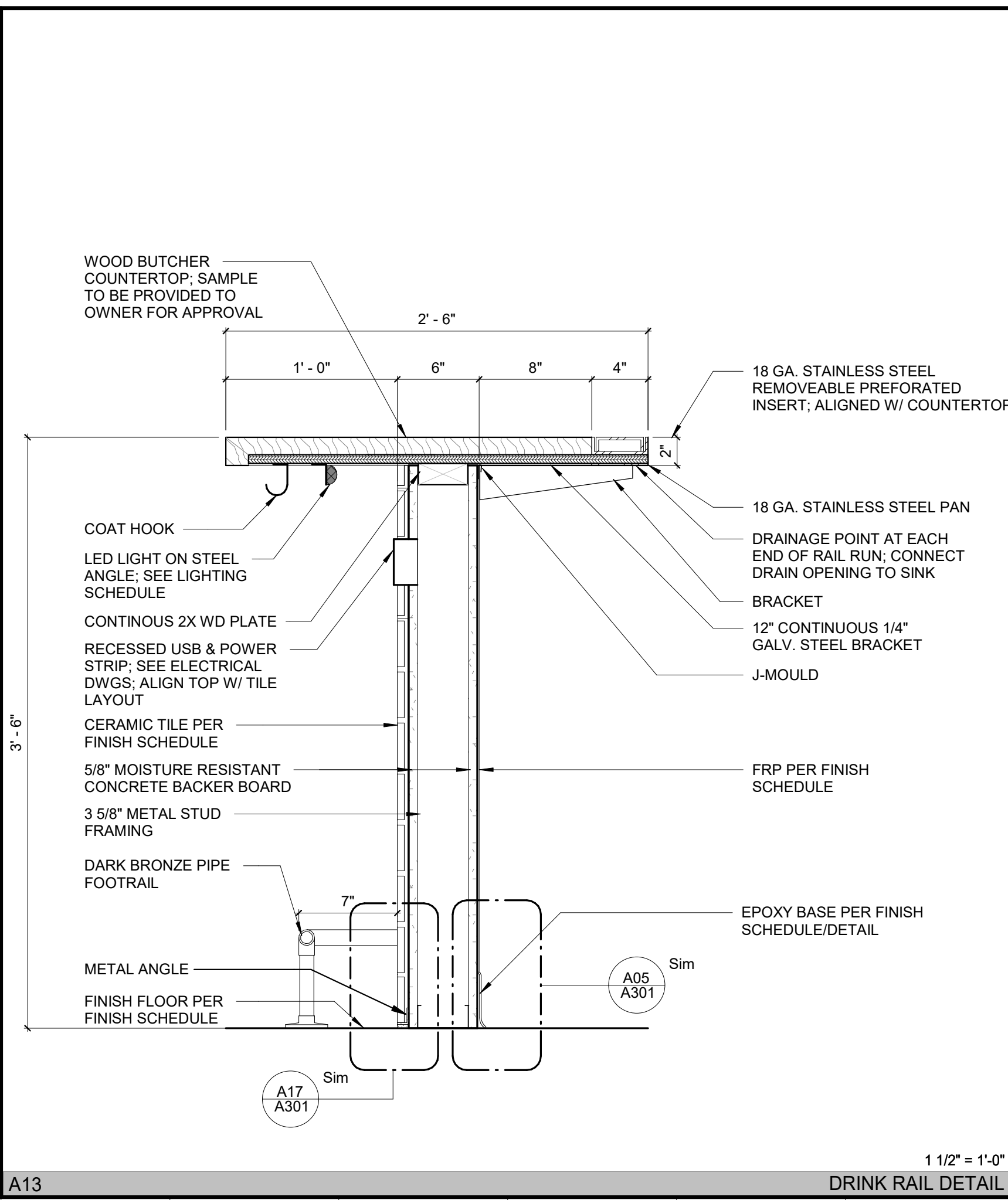
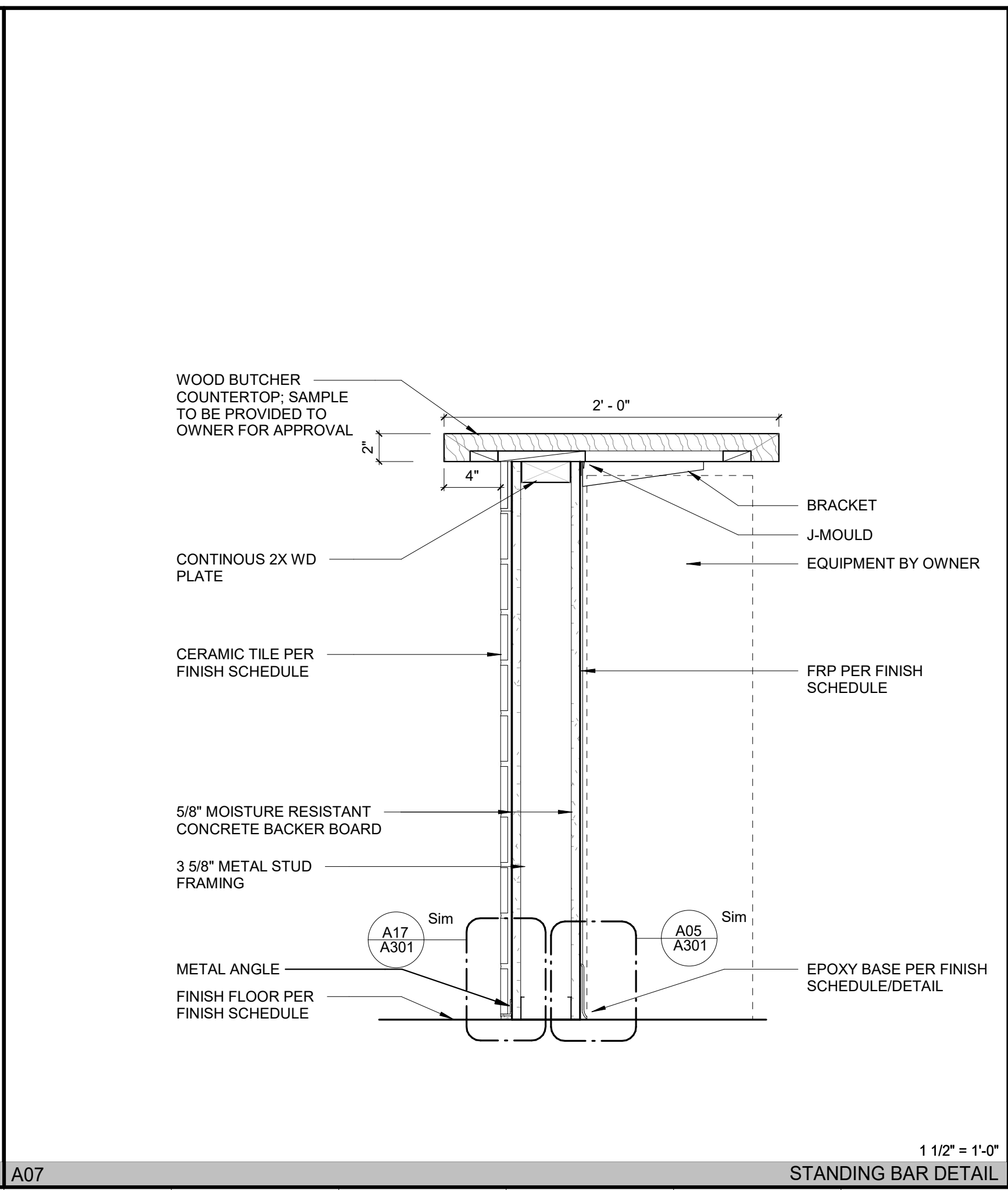
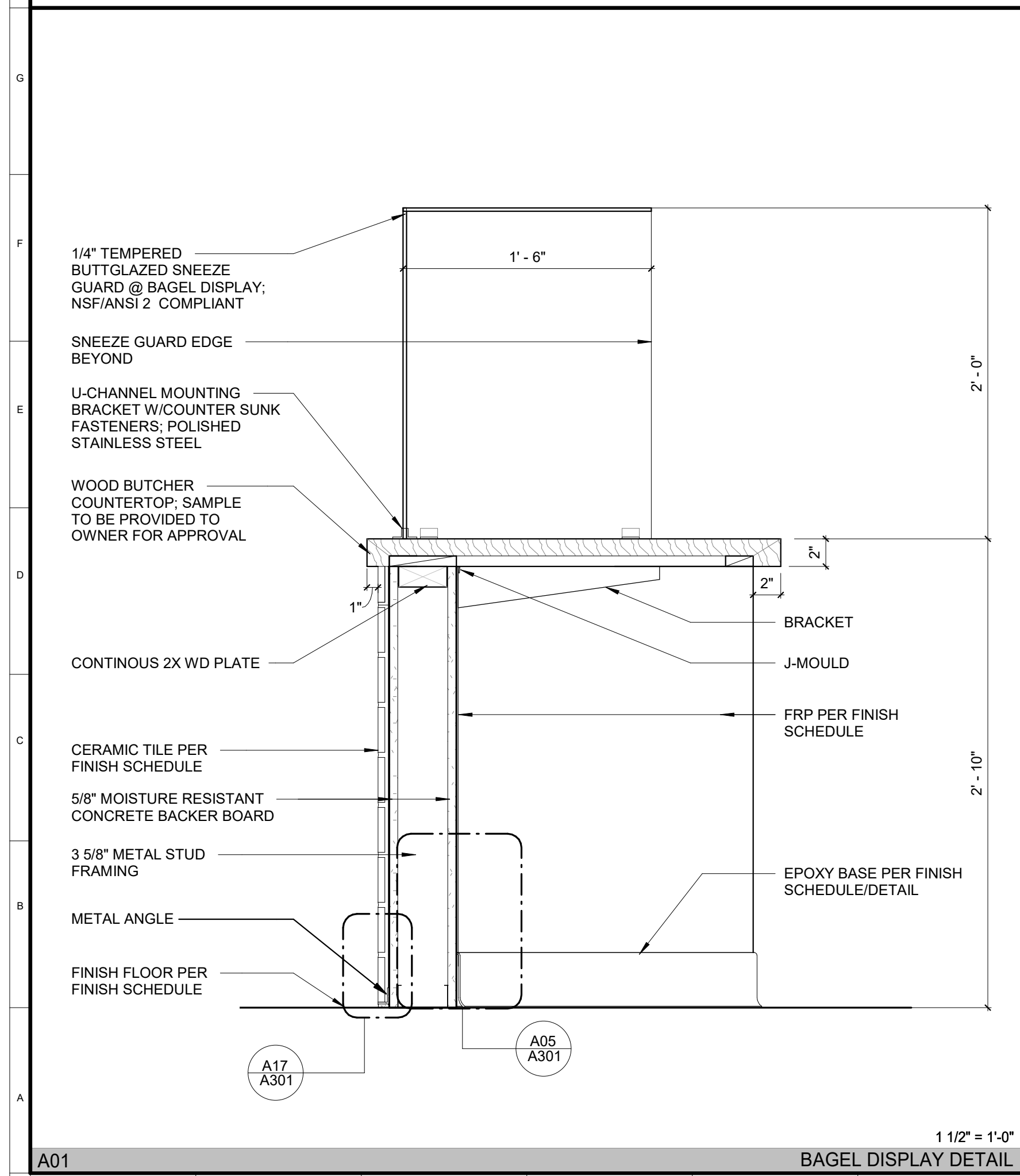
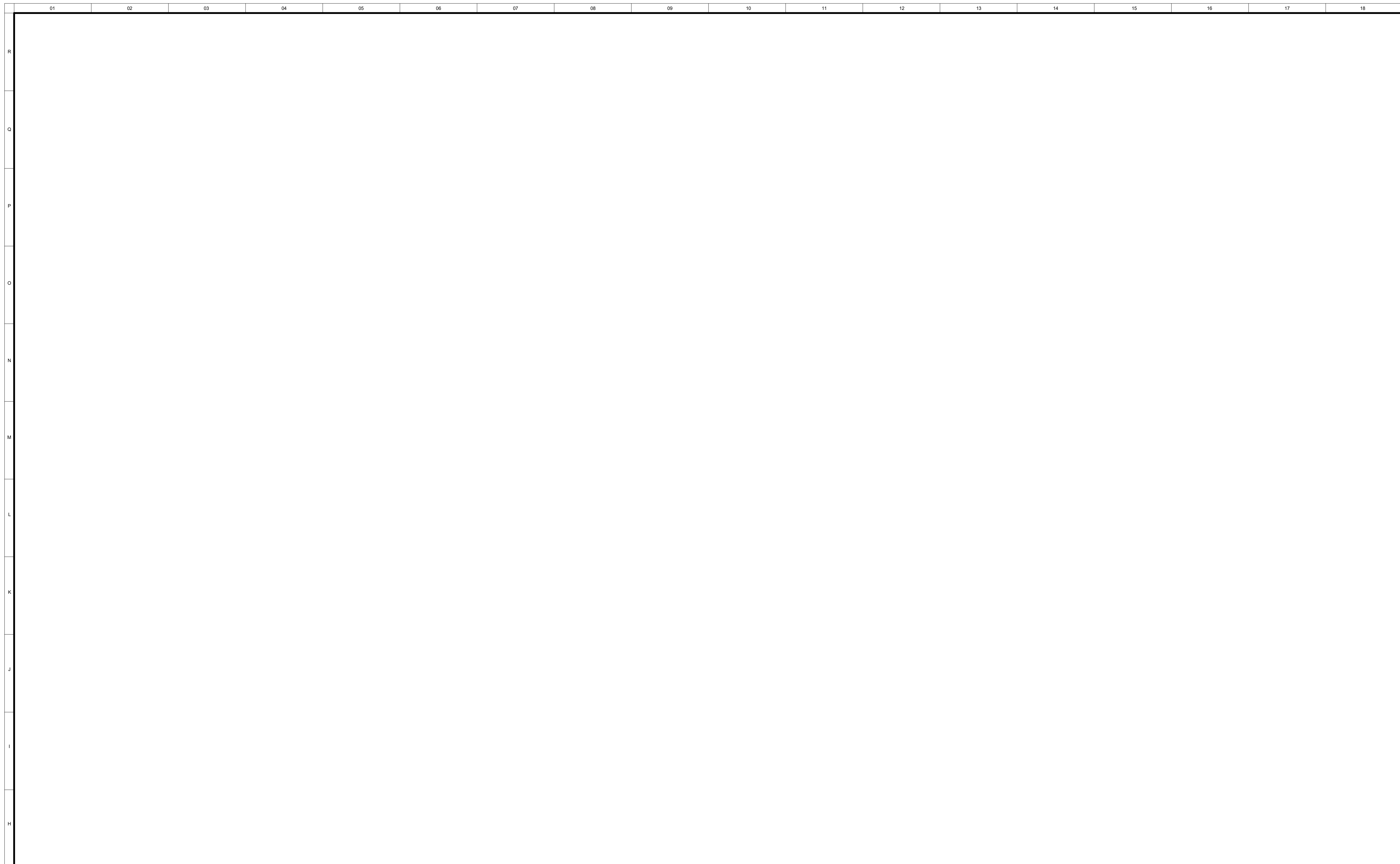
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INTERIOR ELEVATIONS

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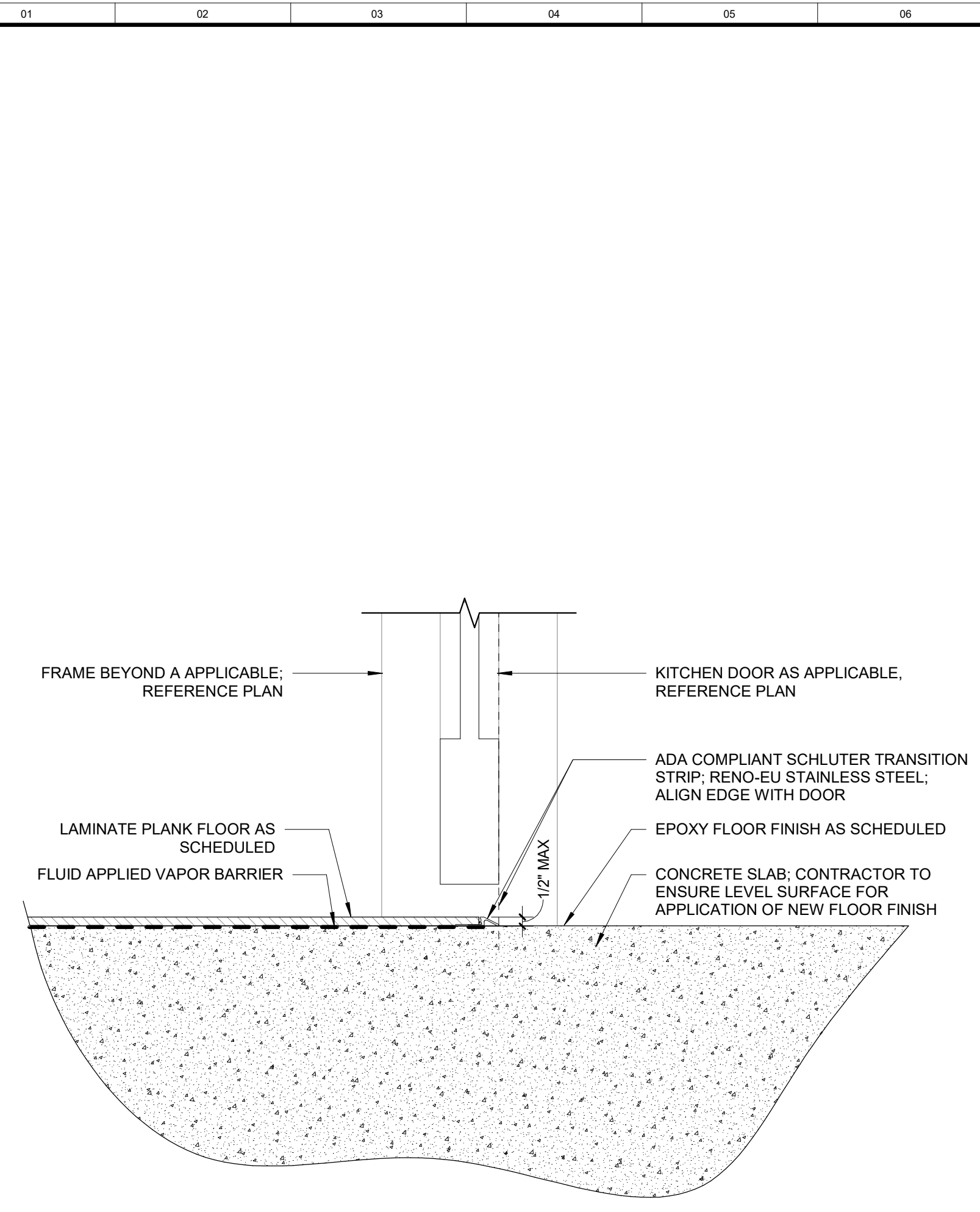
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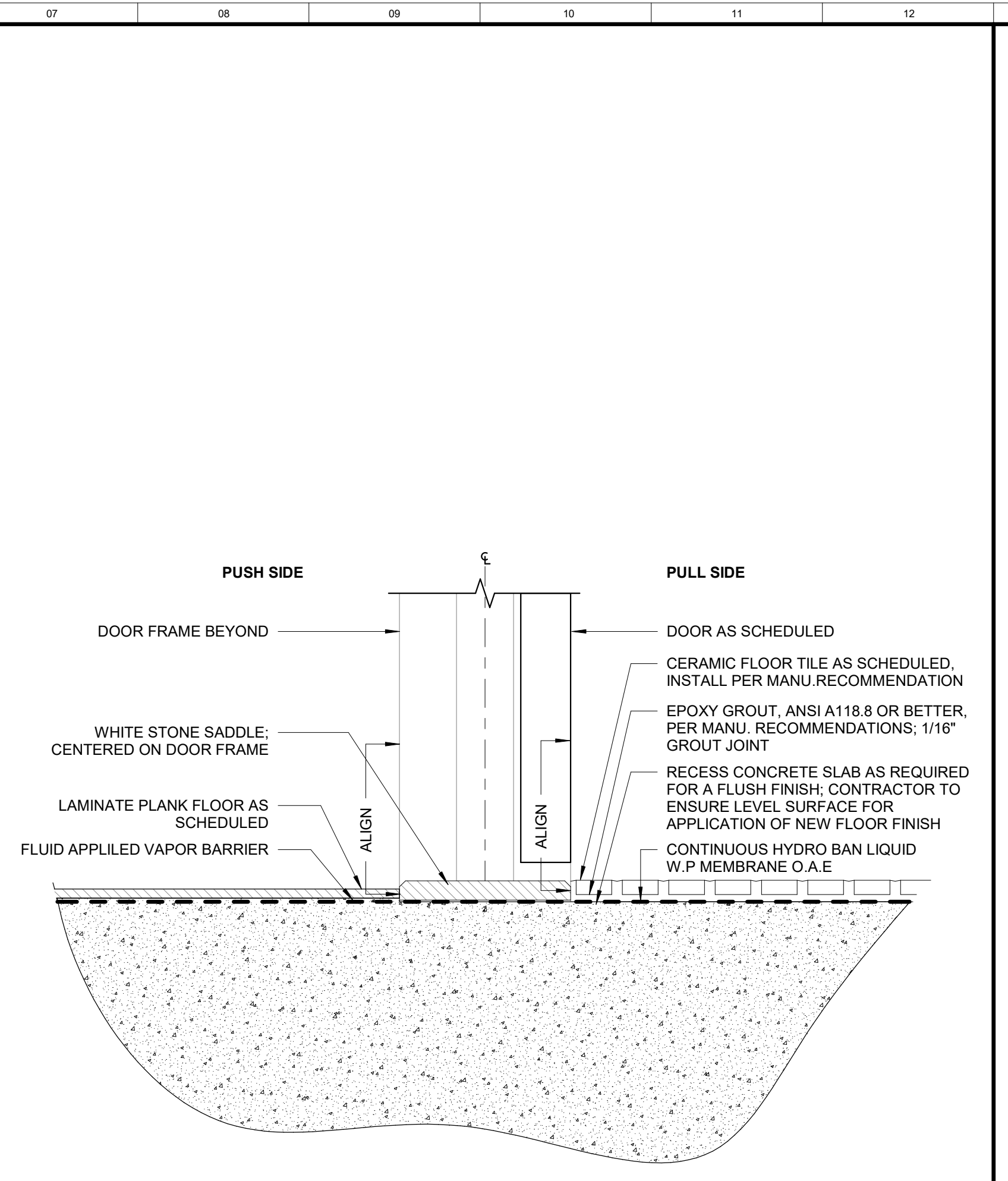
INTERIOR DETAILS

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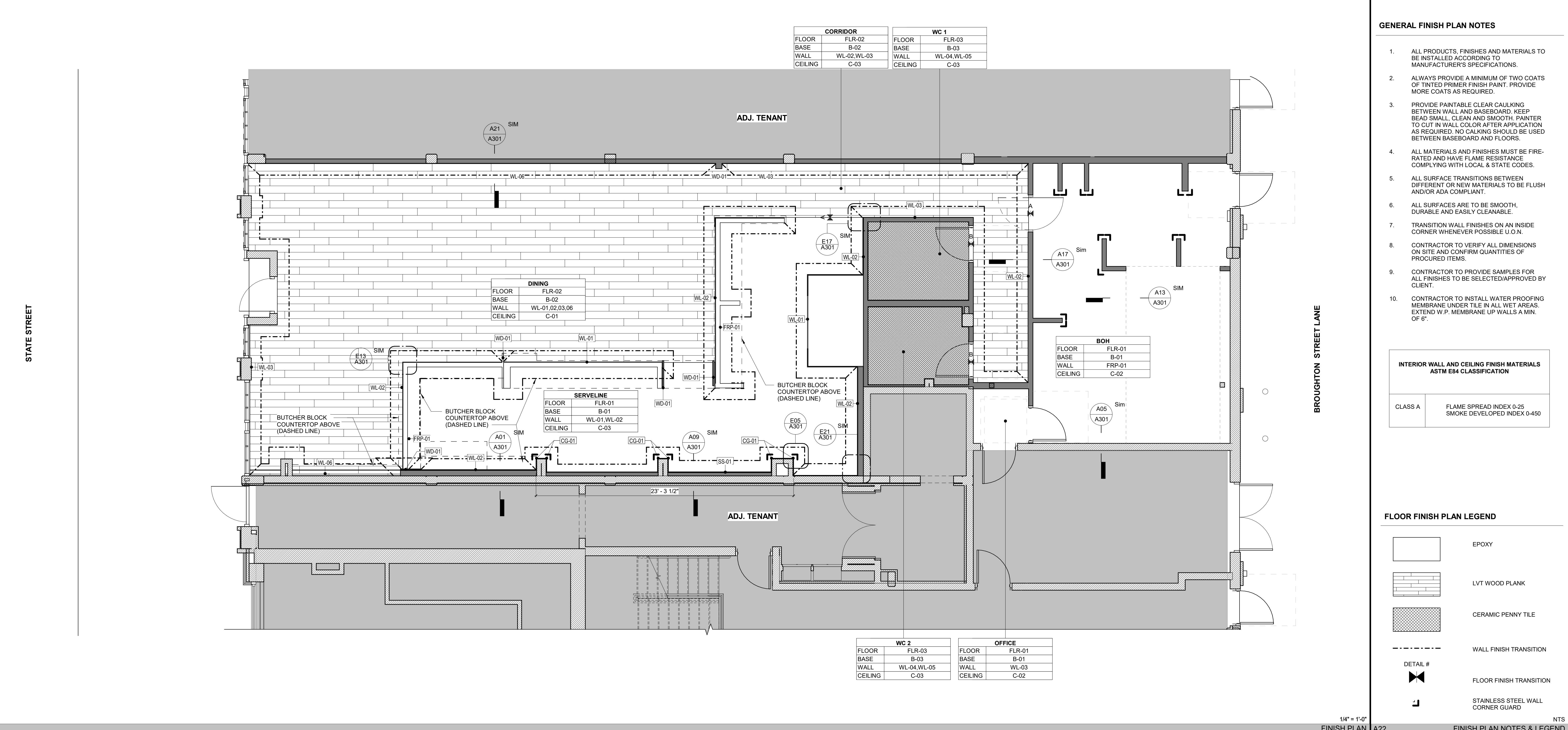
3" = 1'-0"
FLOOR FINISH TRANSITION A - LVT PLANK TO EPOXY



3" = 1'-0"
FLOOR FINISH TRANSITION B - LVT PLANK TO TILE

FINISH SCHEDULE						
TAG	MATERIAL/LOCATION	MANUFACTURER	DESCRIPTION	FURNISH	INSTALL	NOTES
BASE						
B-01	EPOXY WATERPROOF MEMBRANE BOH	DUR-A-FLEX	4" H CONTINUOUS COVE GRAY	GC	GC	CONTINUOUS FROM FINISH FLOOR
B-02	WOOD WALL BASE FOH	BY G.C.	1"x6" PAINT GRADE PAINT COLOR SELECTED BY OWNER	GC	GC	
B-03	CERAMIC TILE COVE BASE WC	DALTILE	6"x6" ARCHITECTURAL MOULDING, 3/8" TK. FINISH TO MATCH WALL TILE	GC	GC	TO MATCH WALL TILE
CEILING						
C-01	INTERIOR CEILING PAINT	BENJAMIN MOORE	COLOR: BM PEARL WHITE FINISH: FLAT	GC	GC	COORD. FINAL COLOR W/ OWNER
C-02	ACOUSTIC CEILING TILE	USG	CLEAN ROOM SCRUBABLE PANELS 24X24	GC	GC	
C-03	WOOD PANEL CEILING	BY G.C.	WOOD PANELS TO MATCH WD-01	GC	GC	CLEAR COAT POLYURETHANE FINISH; CONTRACTOR TO PROVIDE A SAMPLE FOR APPROVAL
FLOOR						
FLR-01	EPOXY WATERPROOF MEMBRANE	DUR-A-FLEX	POLYCRETE M06 W/ELAST-O-COAT GRAY	GC	GC	CONTRACTOR TO COORD. FINAL PRODUCT WITH SAMPLE TO OWNER; CONTRACTOR TO TEST IN OBSCURE AREA AND OWNERS APPROVAL PRIOR TO PROCEEDING THROUGHOUT
FLR-02	WOOD LAMINATE PLANK	TBD	LAMINATE WOOD PLANK COLOR/WHITE WASH	GC	GC	PREPARE FLOOR TO RECEIVE SEAL OR LEVELER AS NEEDED; CONTRACTOR TO PROVIDE WATERPROOF UNDERLAYMENT; APPROVE BY OWNER; PROVIDE SAMPLE TO BE APPROVED BY OWNER BEFORE APPLICATION
FLR-03	CERAMIC PENNY ROUND TILE WC	DALTILE	KEYSTONE PENNY ROUND SOLID COLOR 1X1 (10" X 22" SHEET), 1/4" THK. COLOR: TBD	GC	GC	CONTRACTOR TO PROVIDE WATERPROOF UNDERLAYMENT
METAL						
SS-01	#4 LOW GRIT POLISH	BY G.C.	18 GA POLISHED STAINLESS STEEL	GC	GC	WATERTIGHT VERTICAL GROOVE SEAMS; NO HORIZONTAL SEAMS PERMITTED
TRIM						
CG-01	#4 LOW GRIT POLISH	BY G.C.	20 GA STAINLESS STEEL CORNER GUARD	GC	<varies>	FULL HEIGHT FROM T.O. BASE TO CLG./SOFFIT; REF. FINISH DETAIL
WALL						
FRP-01	FRP BOH & SERVICE SIDE OF BAR	MARLITE	STANDARD FRP WHITE 0.09" THICK	GC	<varies>	PROVIDE STAINLESS STEEL CORNER GUARDS AND PVC TRIM PIECES
WL-01	THIN BRICK VENEER PIZZA OVEN & SERVELINE	GLEN GHERY	ELEMENT COLOR: BAYHILL RUNNING BOND	GC	GC	CONTRACTOR TO PROVIDE SAMPLE TO OWNER FOR APPROVAL; FINISH AND SEAL TO PROVIDE A SMOOTH, NON-ABSORBENT, EASILY CLEANABLE SURFACE; INSTALL PER MANU. RECOMMENDATIONS
WL-02	SUBWAY TILE SERVELINE & ACCENT	DALTILE	COLOR WHEEL CLASSIC 3X6 RUNNING BOND	GC	GC	1/4" GROUT, LATICRETE #22 MIDNIGHT BLACK, SCHLUTER TRIM @ ALL OUTSIDE CORNERS
WL-03	INTERIOR WALL PAINT	BENJAMIN MOORE	COLOR: BM PEARL WHITE FINISH: EGGSHELL	GC	GC	GC TO PROVIDE PAINT DRAW DOWNS FOR APPROVAL
WL-04	CERAMIC WALL TILE WC	DALTILE	COLOR WHEEL CLASSIC 6X6 COLOR: TBD	GC	GC	REGULAR STACK BOND USE 1/8" GROUT JOINT
WL-05	INTERIOR WALL PAINT WC	BENJAMIN MOORE	COLOR: WILD BLUE YONDER CSP-620 FINISH: AURA SATIN	GC	GC	GC TO PROVIDE PAINT DRAW DOWNS FOR APPROVAL
WL-06	WALLPAPER DINING	SELECTED BY OWNER	SELECTED BY OWNER	GC	GC	INSTALL PER MANU. RECOMMENDATIONS, USE SPECIFIED PRIMER AND ADHESIVE
WOOD						
WD-01	PINE O.A.E.	BY G.C.	3/4" PINE VENEER ON PLYWOOD	GC	GC	CLEAR COAT POLYURETHANE FINISH
WD-02	1X WOOD CHAIR RAIL WC	BY G.C.	PAINT GRADE POPLAR	GC	GC	PAINT COLOR SELECTED BY OWNER

FINISH SCHEDULE



GENERAL FINISH PLAN NOTES

- ALL PRODUCTS, FINISHES AND MATERIALS TO BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
- ALWAYS PROVIDE A MINIMUM OF TWO COATS OF TINTED PRIMER FINISH PAINT. PROVIDE MORE COATS AS REQUIRED.
- PROVIDE PAINTABLE CLEAR CAULKING BETWEEN WALL AND BASEBOARD. KEEP BEAD SMALL, CLEAN AND SMOOTH. PAINTER TO CUT IN WALL COLOR AFTER APPLICATION AS REQUIRED. NO CALKING SHOULD BE USED BETWEEN BASEBOARD AND FLOORS.
- ALL MATERIALS AND FINISHES MUST BE FIRE-RATED AND HAVE FLAME RESISTANCE COMPLYING WITH LOCAL & STATE CODES.
- ALL SURFACE TRANSITIONS BETWEEN DIFFERENT OR NEW MATERIALS TO BE FLUSH AND/OR ADA COMPLIANT.
- ALL SURFACES ARE TO BE SMOOTH, DURABLE AND EASILY CLEANABLE.
- TRANSITION WALL FINISHES ON AN INSIDE CORNER WHENEVER POSSIBLE U.O.N.
- CONTRACTOR TO VERIFY ALL DIMENSIONS ON SITE AND CONFIRM QUANTITIES OF PROCURED ITEMS.
- CONTRACTOR TO PROVIDE SAMPLES FOR ALL FINISHES TO BE SELECTED/APPROVED BY CLIENT.
- CONTRACTOR TO INSTALL WATER PROOFING MEMBRANE UNDER TILE IN ALL WET AREAS. EXTEND W.P. MEMBRANE UP WALLS A MIN. OF 6".

INTERIOR WALL AND CEILING FINISH MATERIALS ASTM E84 CLASSIFICATION	
CLASS A	FLAME SPREAD INDEX 0-25 SMOKE DEVELOPED INDEX 0-450

FLOOR FINISH PLAN LEGEND	
[Symbol]	EPOXY
[Symbol]	LVT WOOD PLANK
[Symbol]	CERAMIC PENNY TILE
[Symbol]	WALL FINISH TRANSITION
[Symbol]	FLOOR FINISH TRANSITION
[Symbol]	STAINLESS STEEL WALL CORNER GUARD

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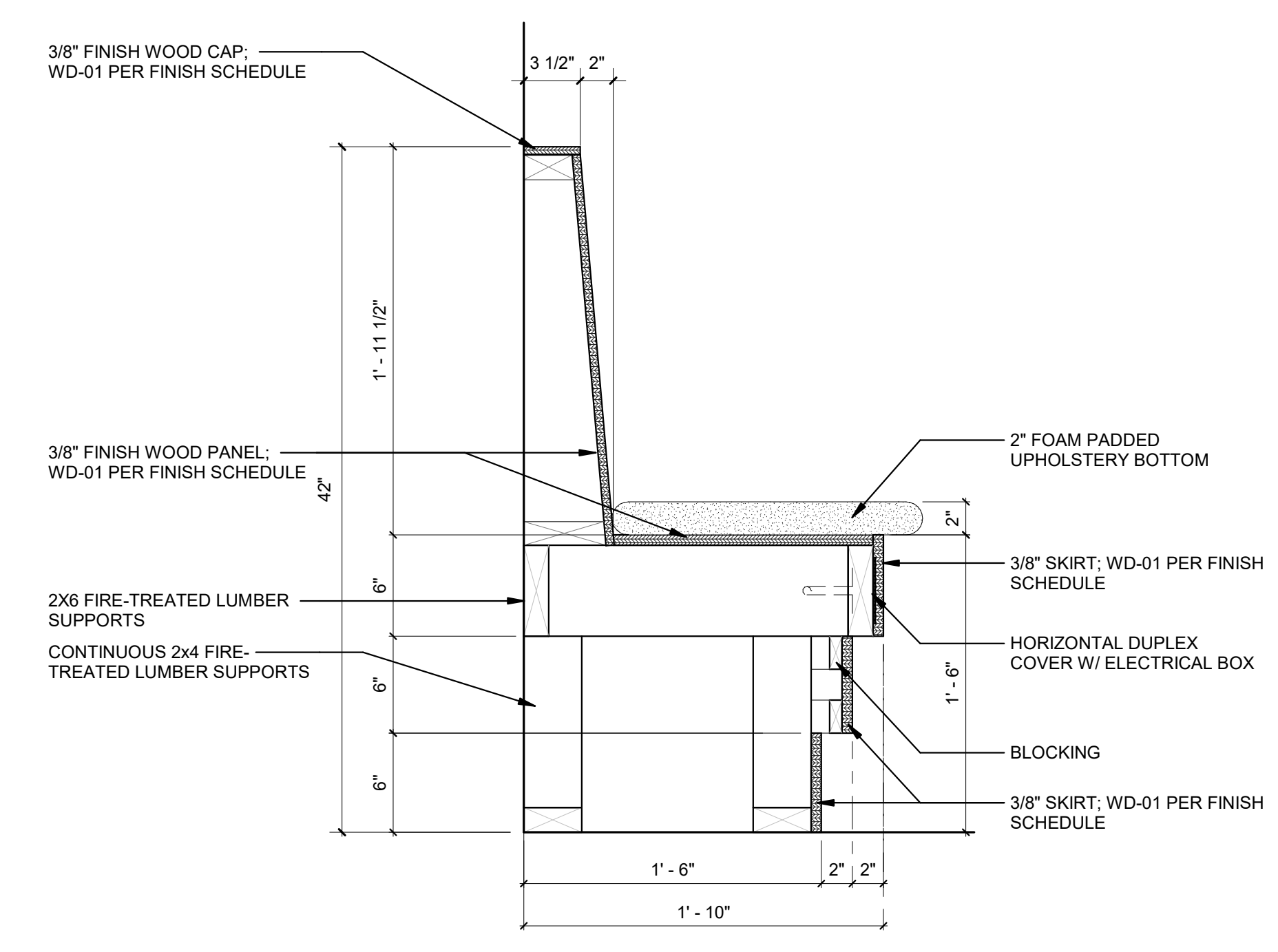
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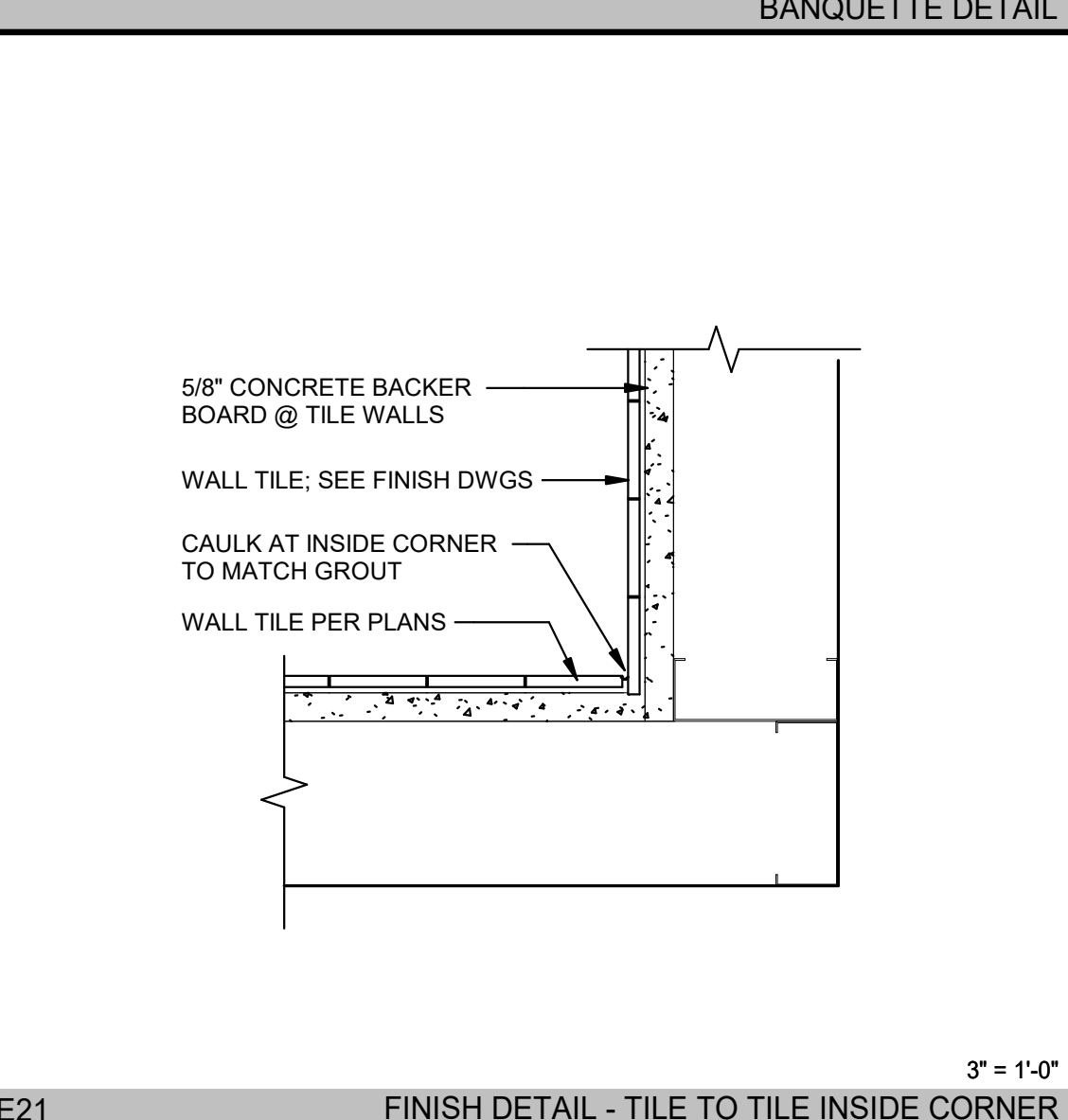
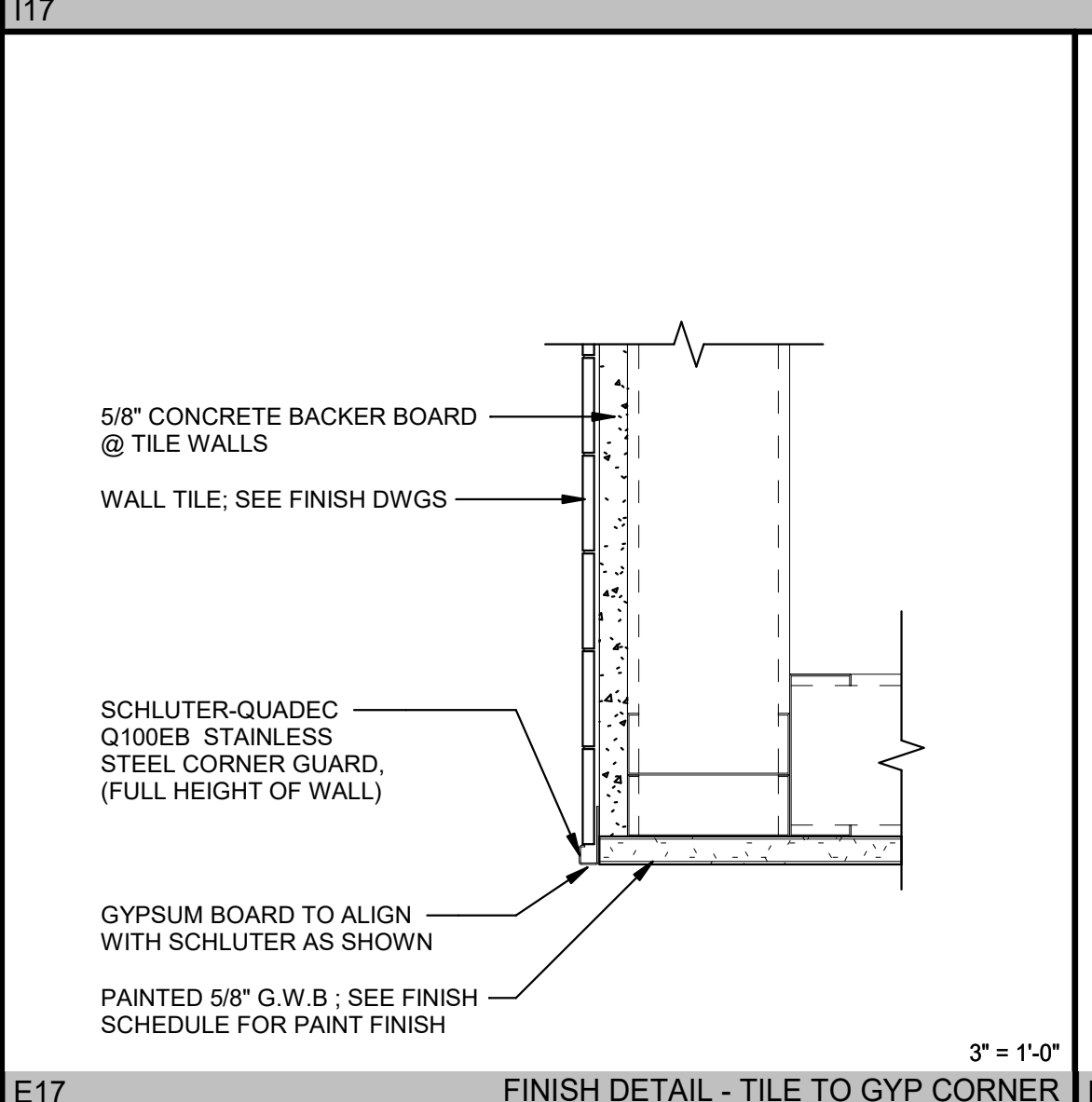
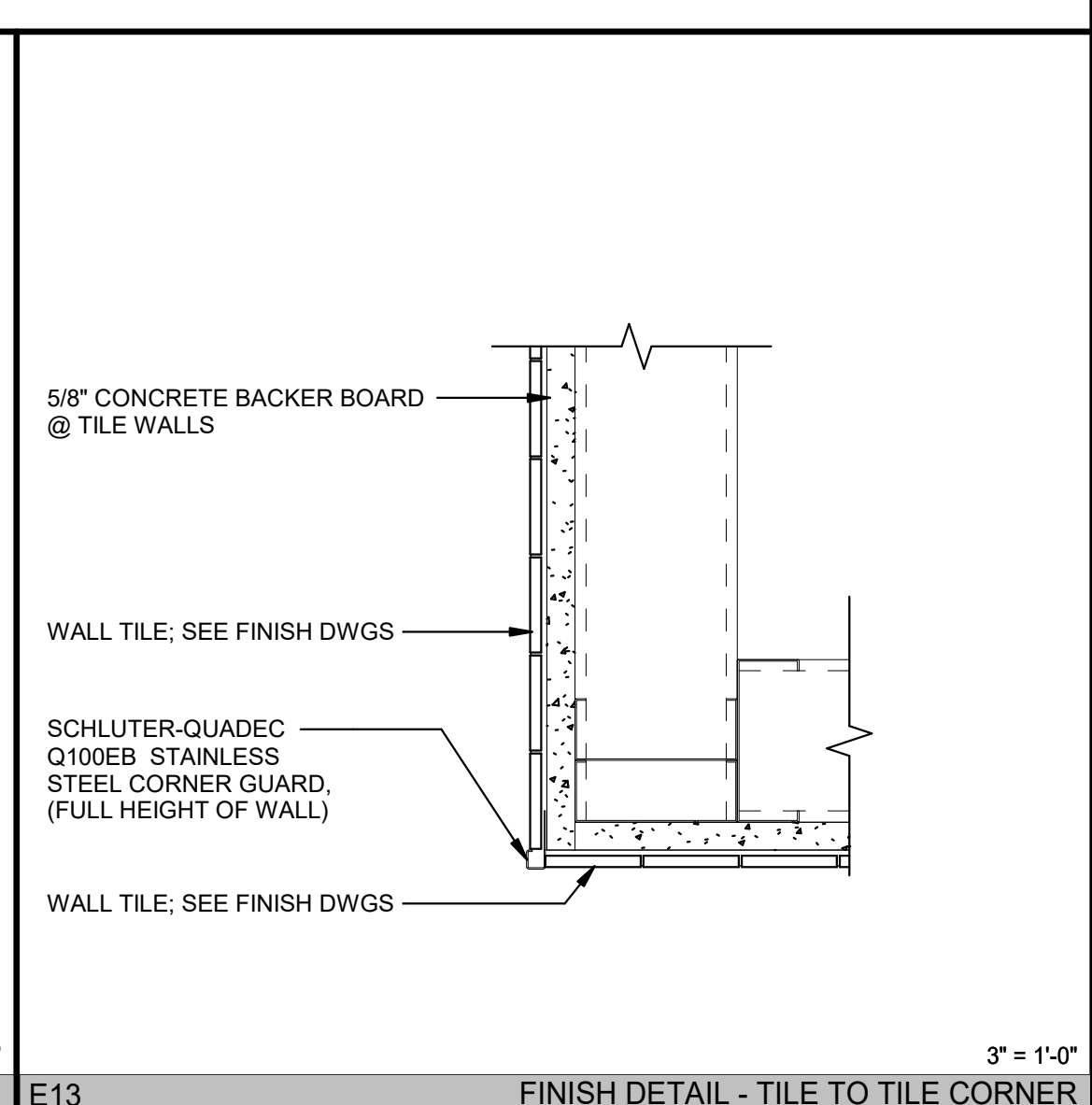
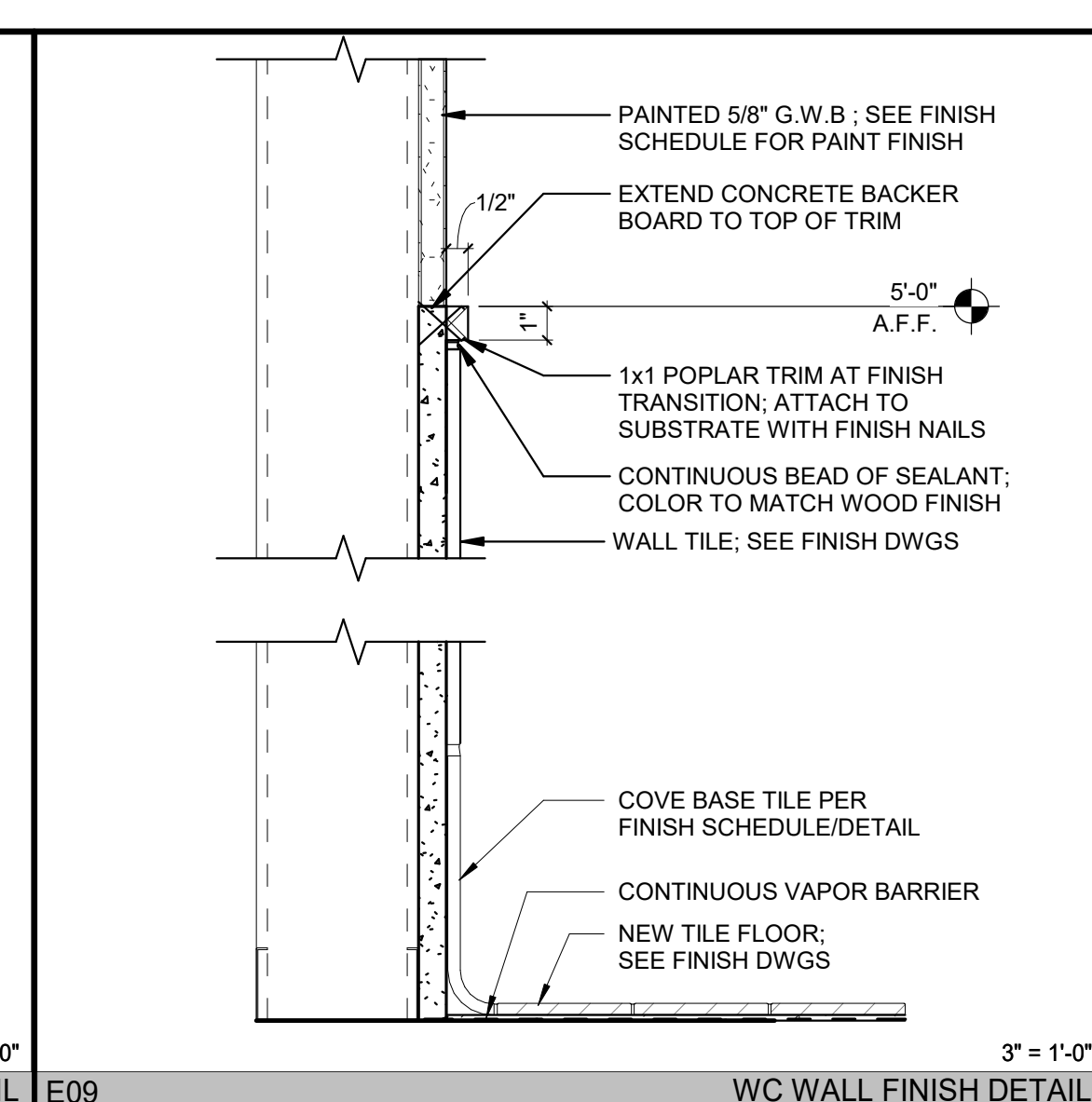
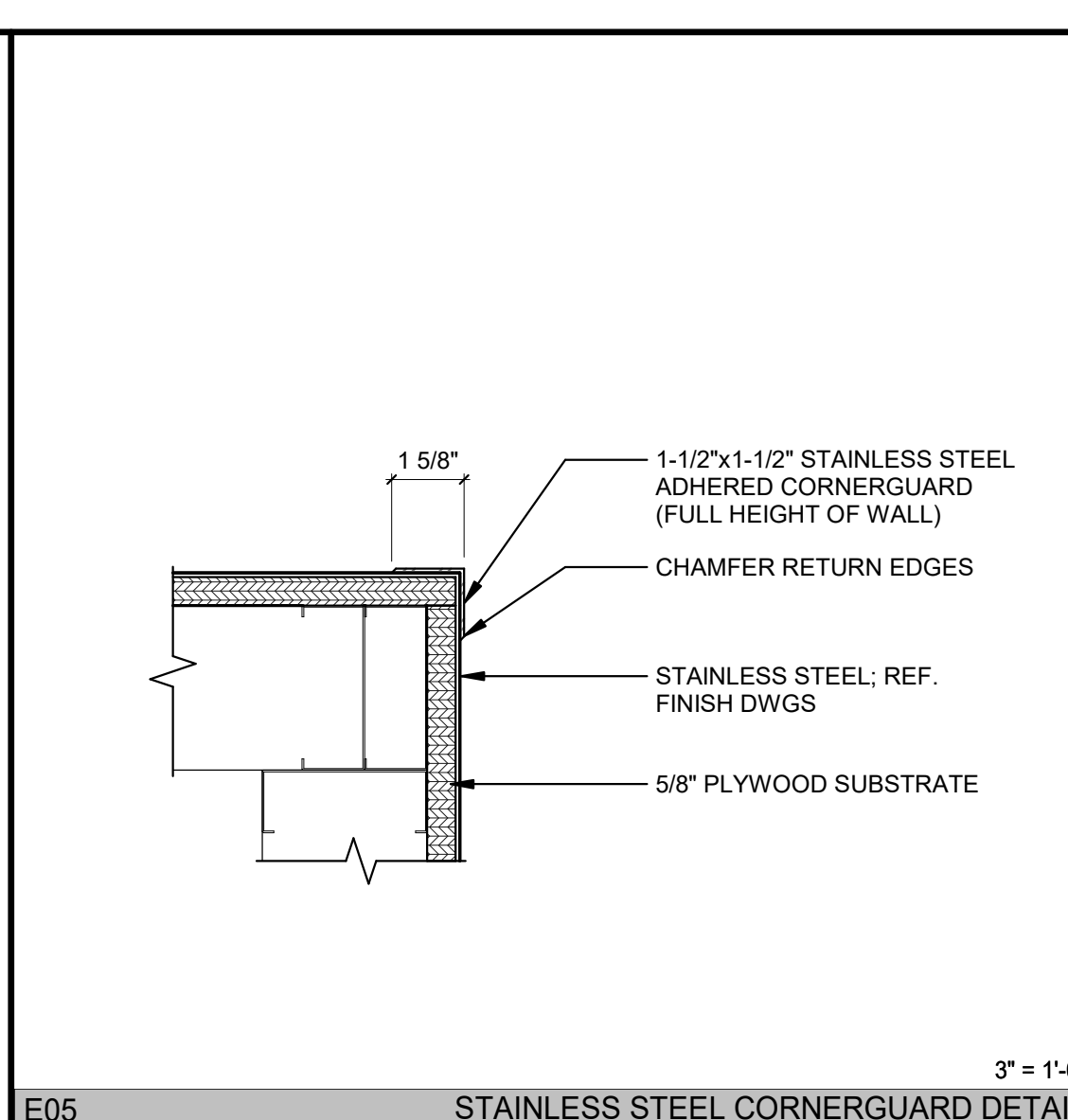
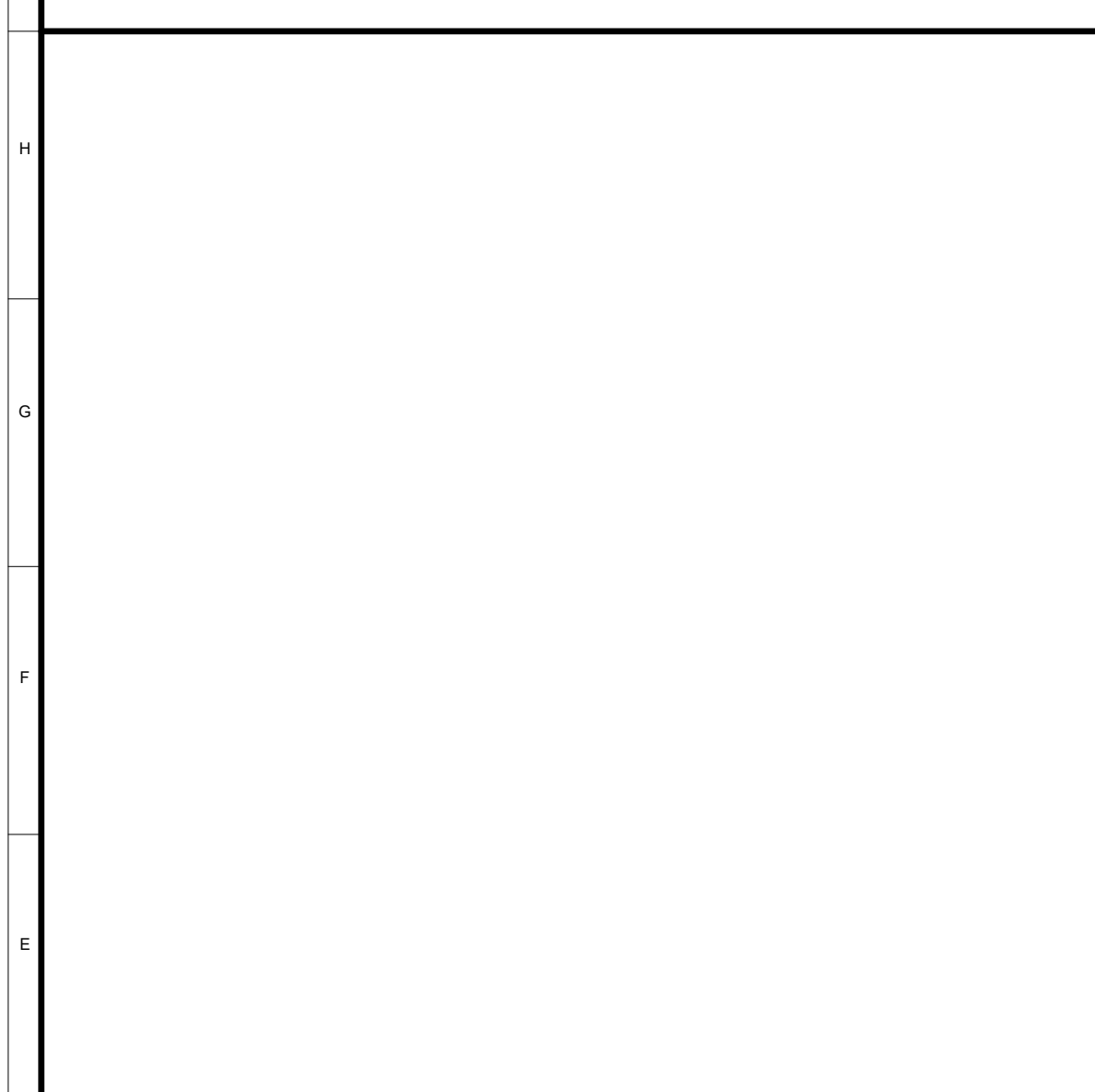
FIRST FLOOR FINISH PLAN
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1 1/2" = 1'-0"
BANQUETTE DETAIL



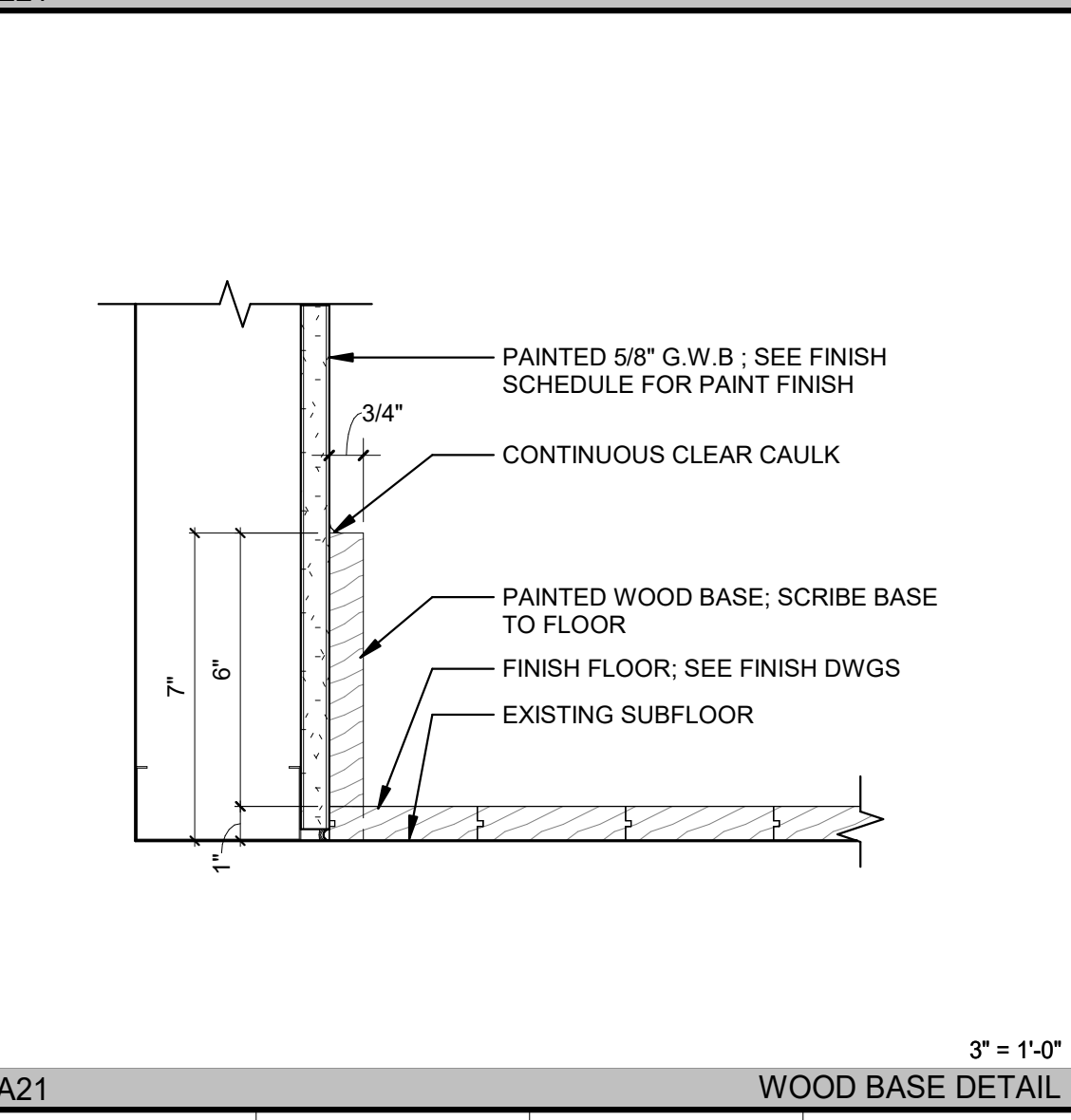
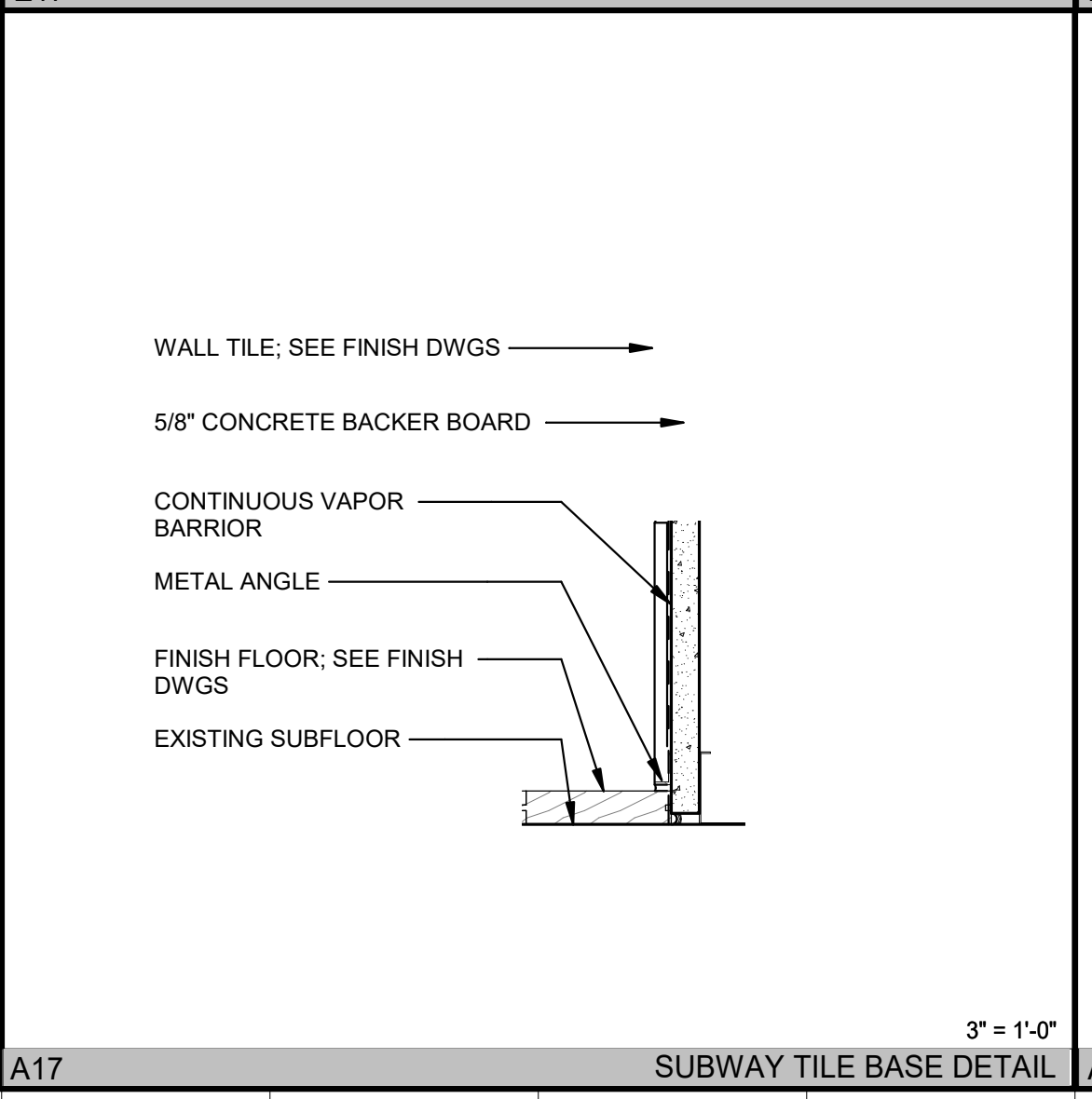
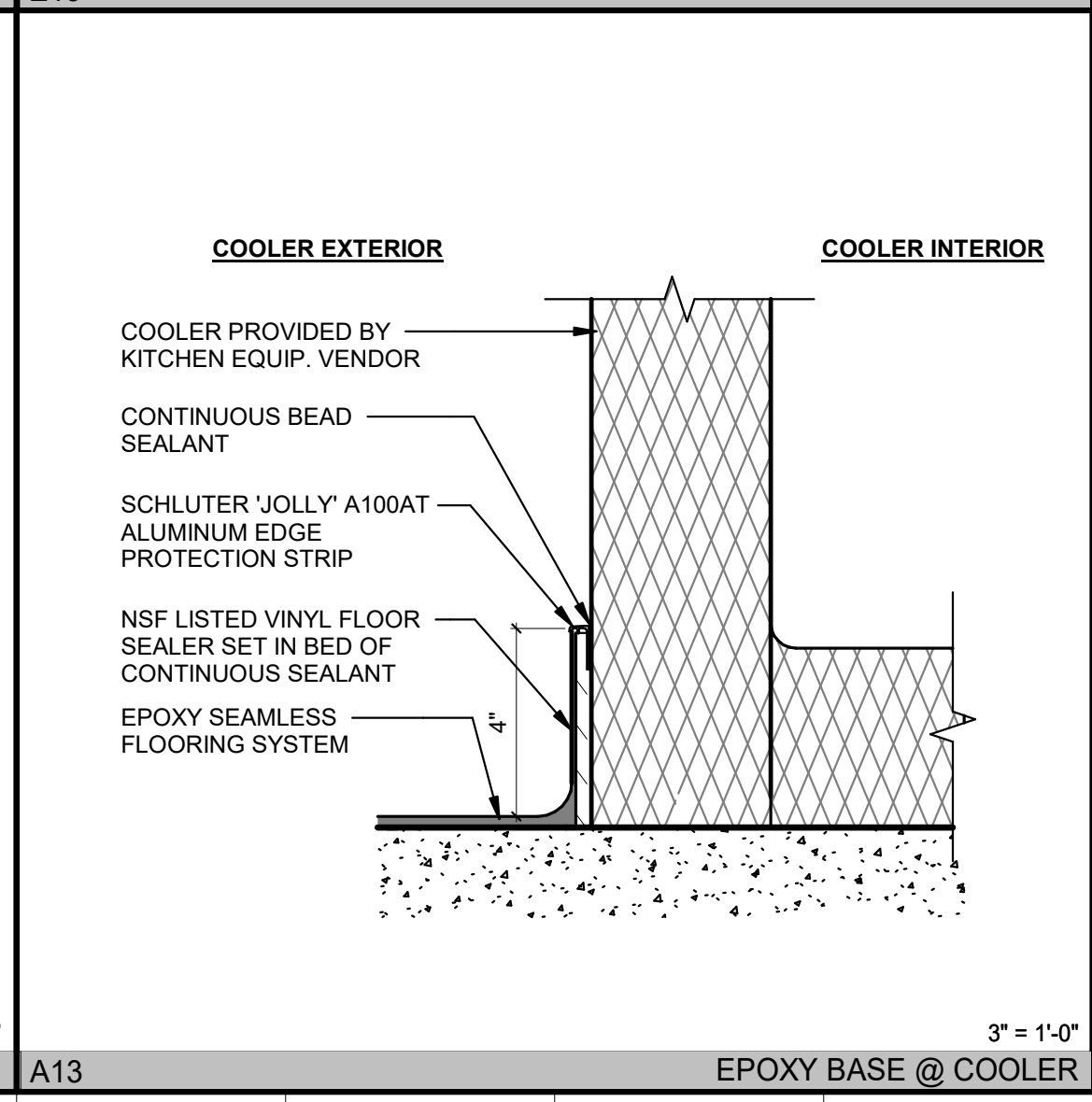
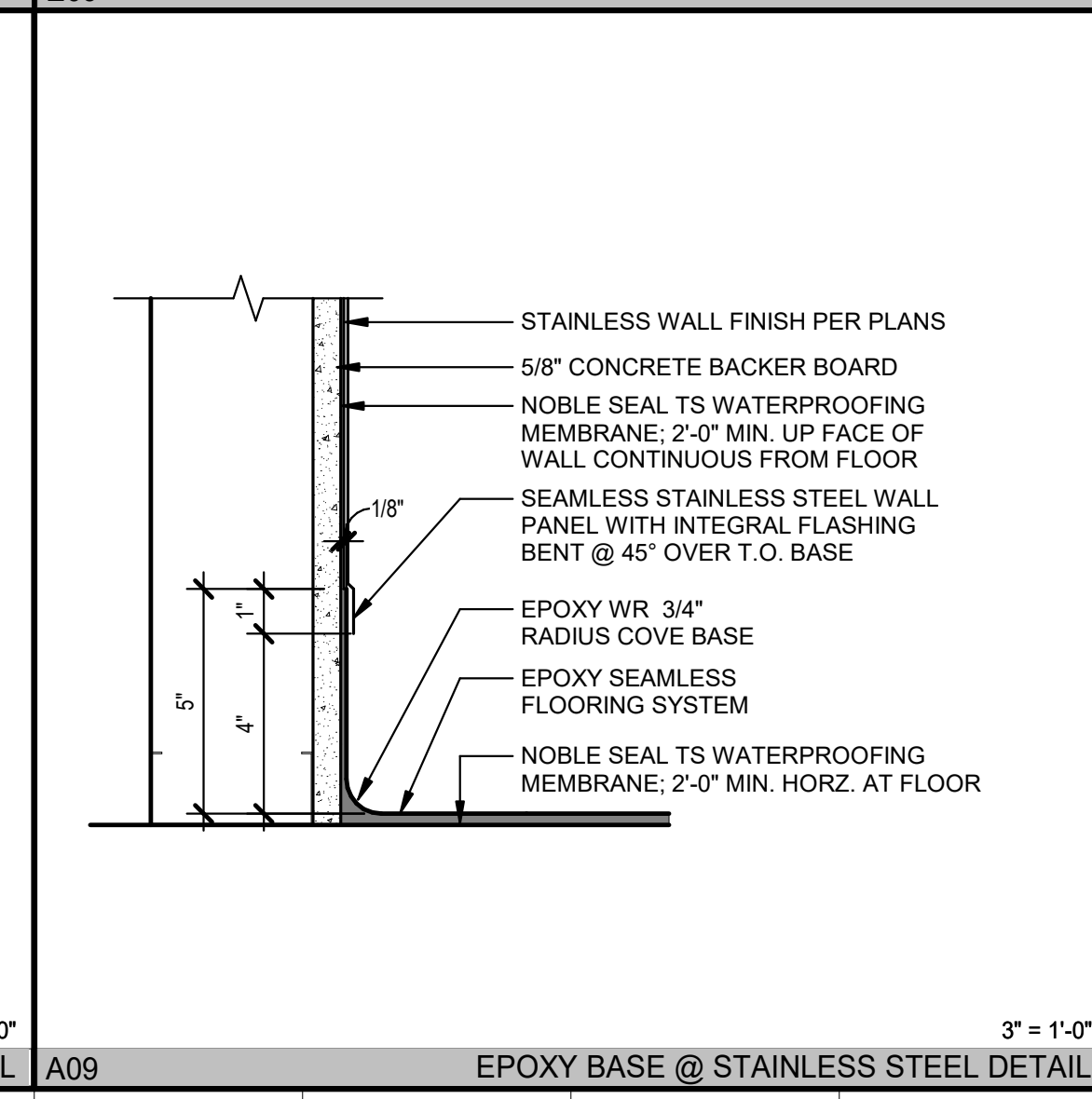
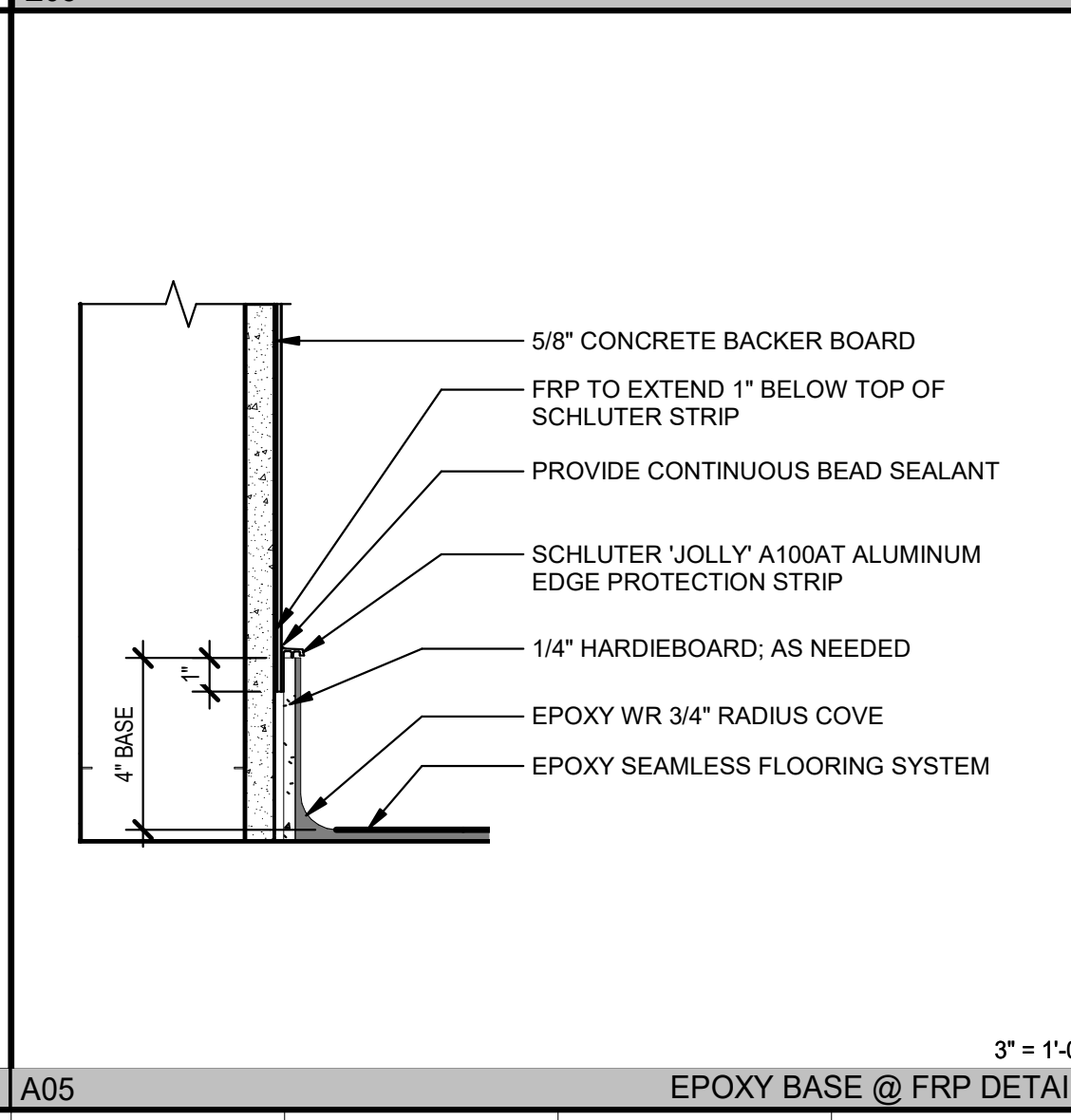
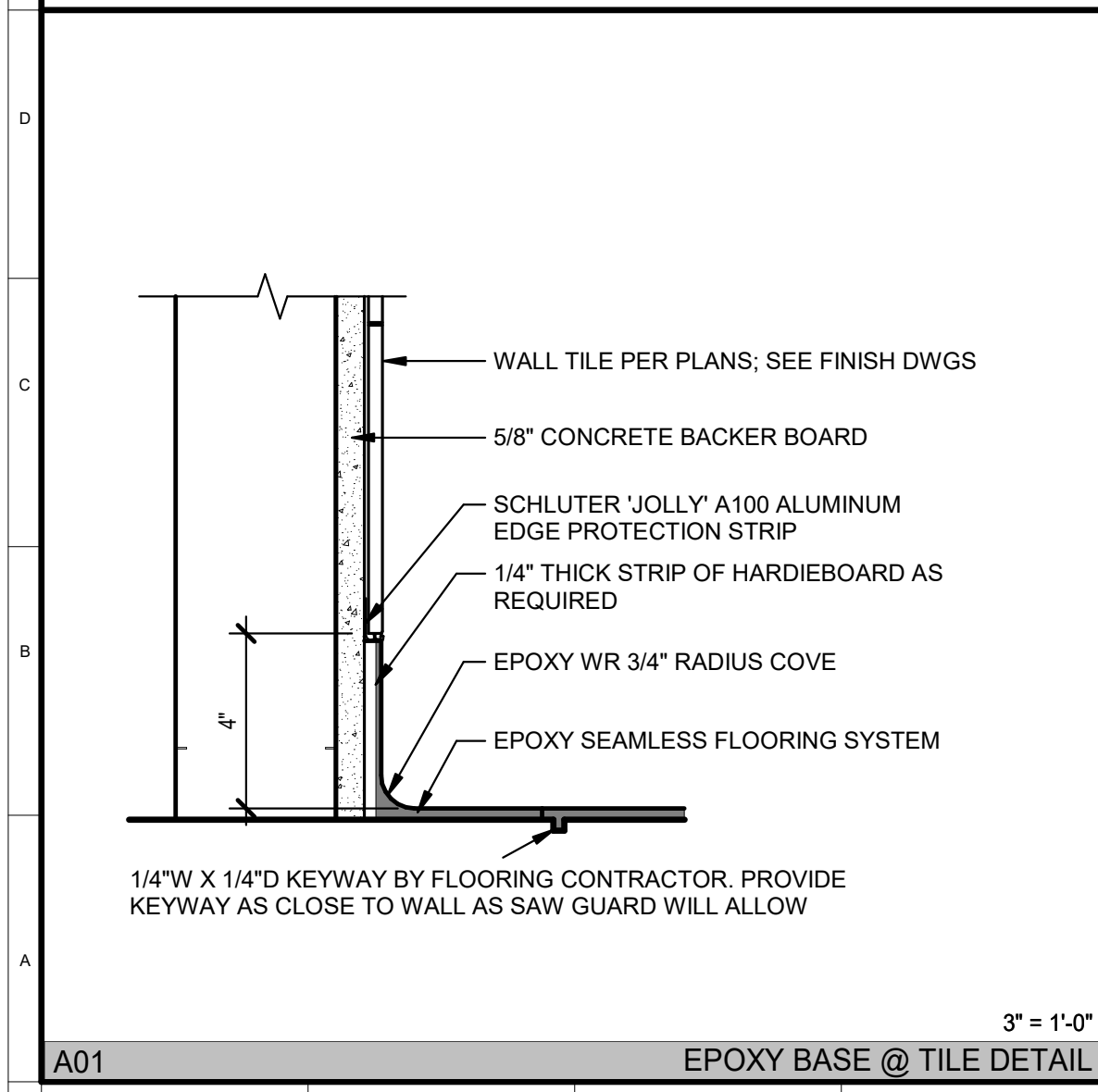
3" = 1'-0"
E05 STAINLESS STEEL CORNERGUARD DETAIL

3" = 1'-0"
E09 WC WALL FINISH DETAIL

3" = 1'-0"
E13 FINISH DETAIL - TILE TO TILE CORNER

3" = 1'-0"
E17 FINISH DETAIL - TILE TO GYP CORNER

3" = 1'-0"
E21 FINISH DETAIL - TILE TO TILE INSIDE CORNER



3" = 1'-0"
A01 EPOXY BASE @ TILE DETAIL

3" = 1'-0"
A05 EPOXY BASE @ FRP DETAIL

3" = 1'-0"
A09 EPOXY BASE @ STAINLESS STEEL DETAIL

3" = 1'-0"
A13 EPOXY BASE @ COOLER

3" = 1'-0"
A17 SUBWAY TILE BASE DETAIL

3" = 1'-0"
A21 WOOD BASE DETAIL



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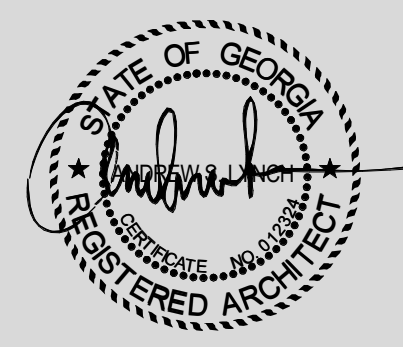
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Revisions

No	Date	Description

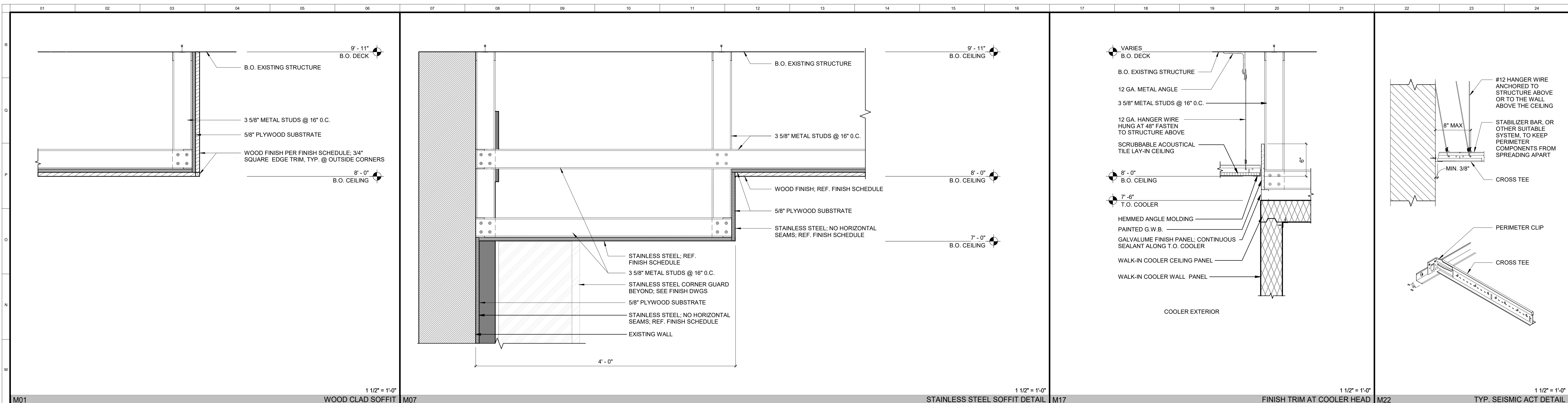
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FINISH DETAILS

Status	100%
Date	MARCH 2ND, 2023
Project No.	2228.00
Drawing No.	

A301



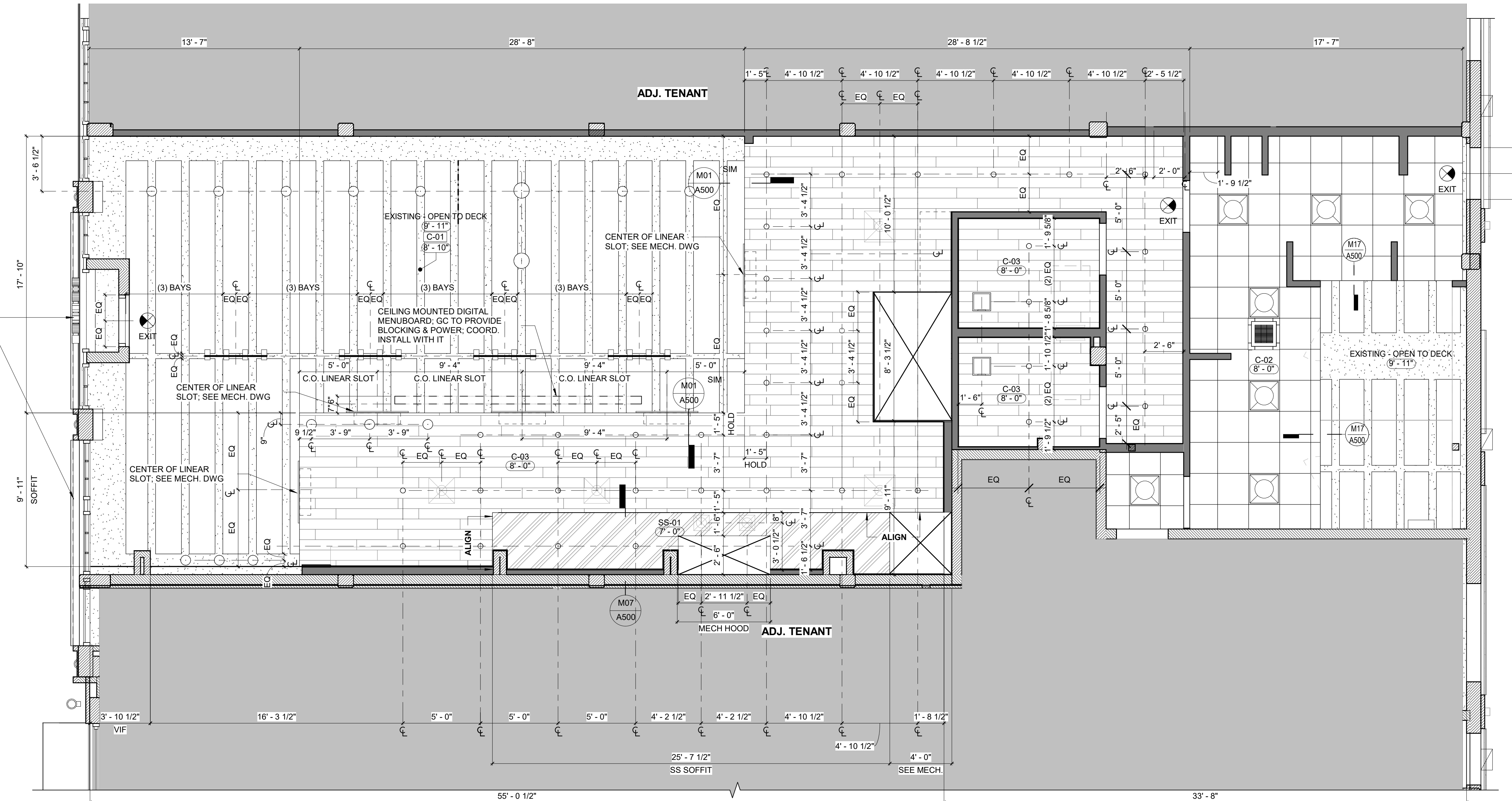
M01 1 1/2" = 1'-0" WOOD CLAD SOFFIT M07 1 1/2" = 1'-0" STAINLESS STEEL SOFFIT DETAIL M17 1 1/2" = 1'-0" FINISH TRIM AT COOLER HEAD M22 1 1/2" = 1'-0" TYP. SEISMIC ACT DETAIL

GENERAL REFLECTED CEILING PLAN NOTES

1. ALL DIMENSIONS ARE TO FACE OF STUD, UNLESS NOTED OTHERWISE.
2. ALL CEILINGS ARE FASTENED TO UNDERSIDE OF FLOOR/ROOF FRAMING UNLESS NOTED OTHERWISE.
3. ALL CEILINGS ARE TO BE SMOOTH FINISHED, PAINTED GWB UNLESS NOTED OTHERWISE.
4. FIXTURES ARE TO BE CENTERED IN SPACE UNLESS DIMENSIONED OTHERWISE.
5. GC TO COORDINATE LIGHTING, VENTING, SPRINKLER AND OTHER CEILING-MOUNTED FIXTURE ALIGNMENT WITH OWNER PRIOR TO CLOSING IN. OWNER REVIEW AND APPROVAL OF ALIGNMENT REQUIRED BEFORE PROCEEDING.
6. SEE ELECTRICAL DWGS FOR FIXTURE DETAILS.
7. ALL FIXTURES TO BE UL RATED.

REFLECTED CEILING PLAN LEGEND

- 4" LED RECESSED CAN LIGHT
- PENDANT SMALL
- PENDANT LARGE
- TRACK LIGHT
- 2X2 LED
- EXIT
- EXIT
- EXPOSED CEILING - OPEN TO DECK C-01
- 24" X 24" CEILING TILE C-02
- WOOD PANEL CEILING C-03
- STAINLESS STEEL SS-01
- 24X24 CEILING CASSETTE - REF. MECH DWGS
- EXHAUST FAN - REF. MECH DWGS
- MECH. GRILLE/DIFFUSER - REF. MECH DWGS
- SOFFIT MOUNTED LINEAR SLOTS - REF. MECH DWGS



A01 1/4" = 1'-0" REFLECTED CEILING PLAN A22 REFLECTED CEILING PLAN NOTES & LEGEND



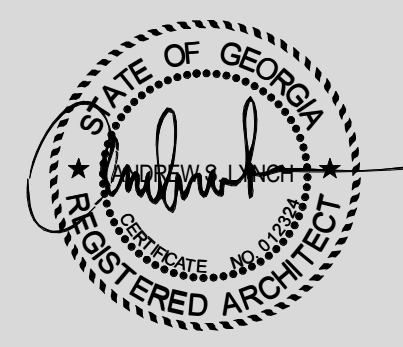
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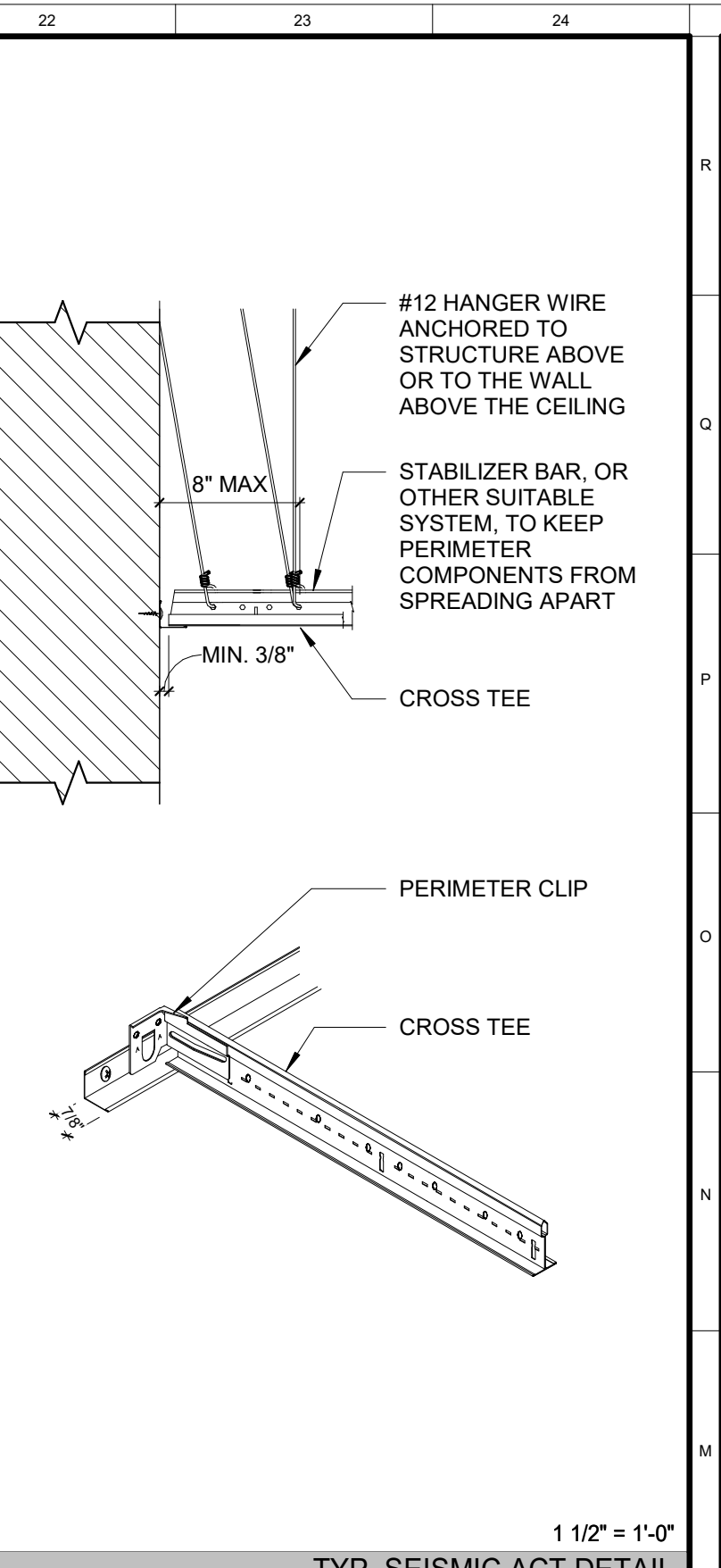
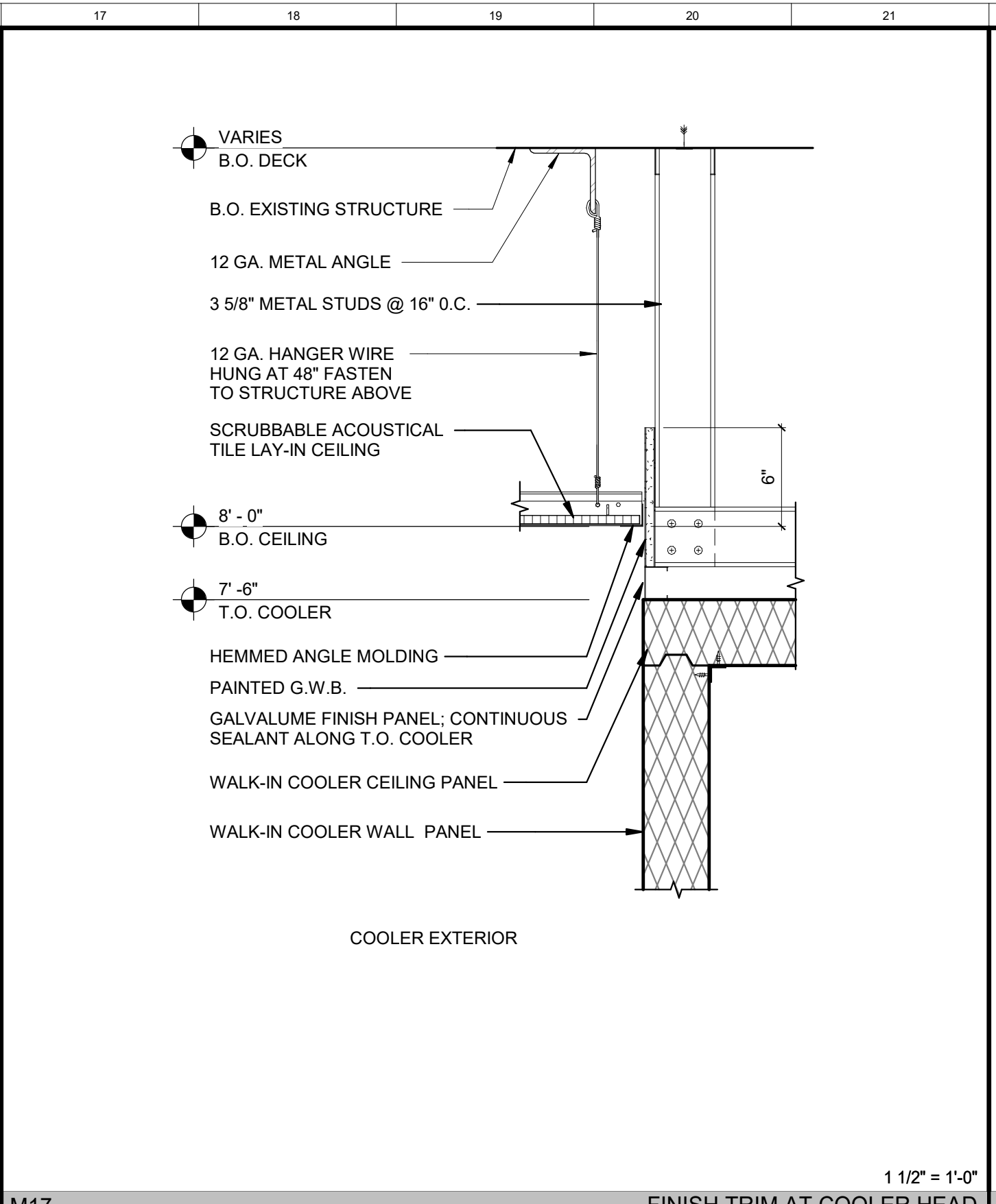
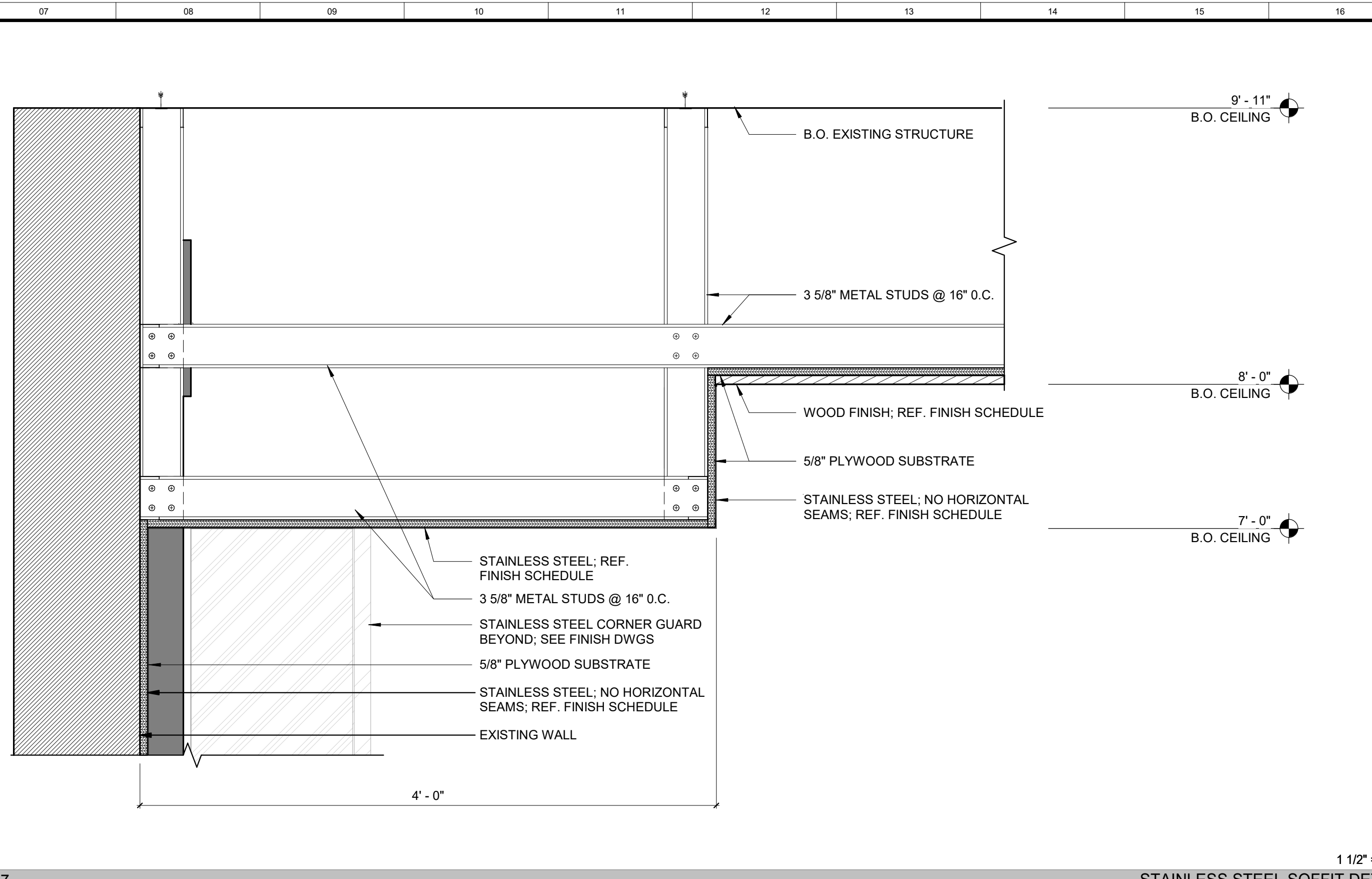
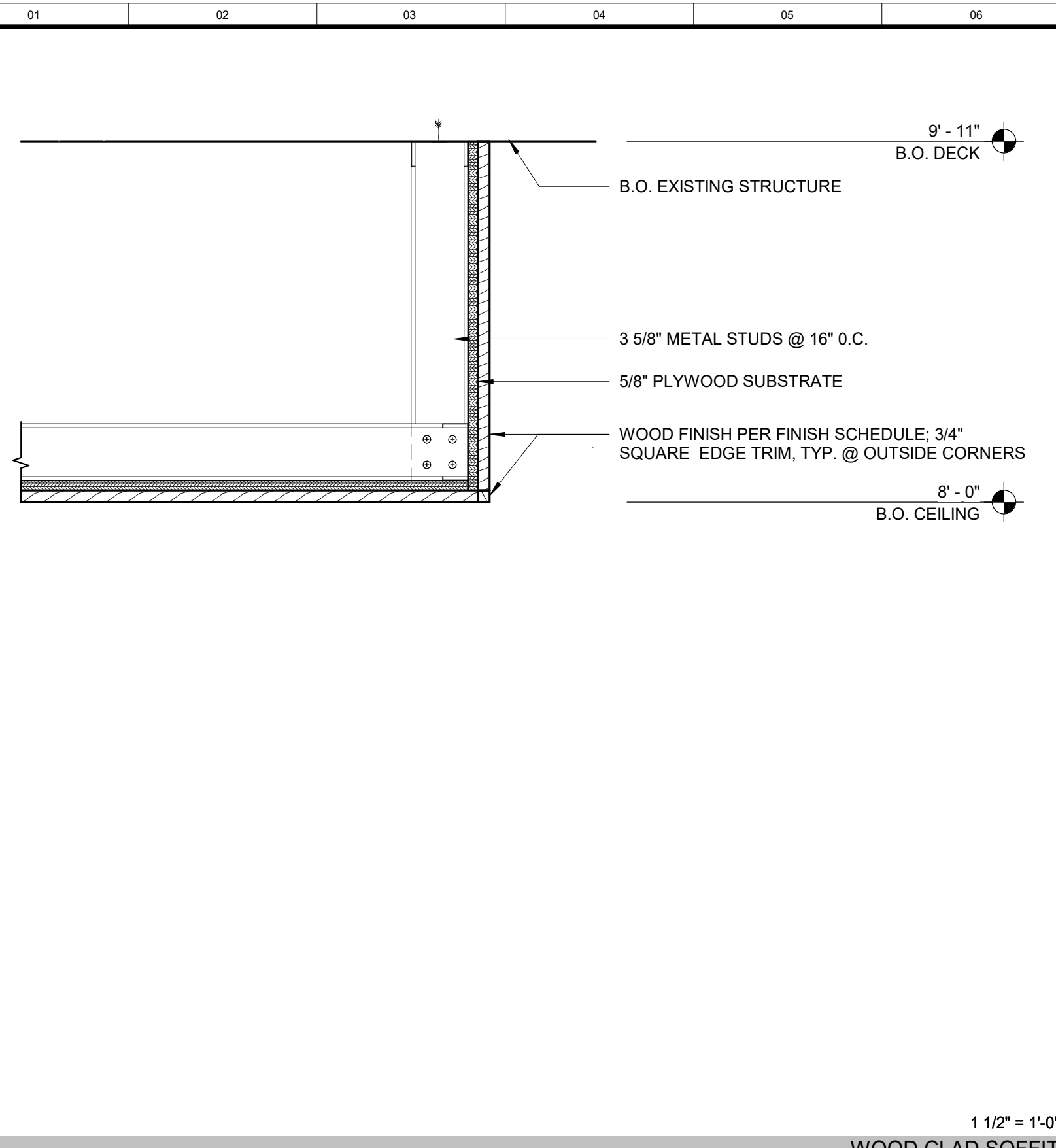
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FIRST FLOOR REFLECTED CEILING PLAN

Status 100%
Date MARCH 2ND, 2023
Project No. 2228.00
Drawing No.

A500

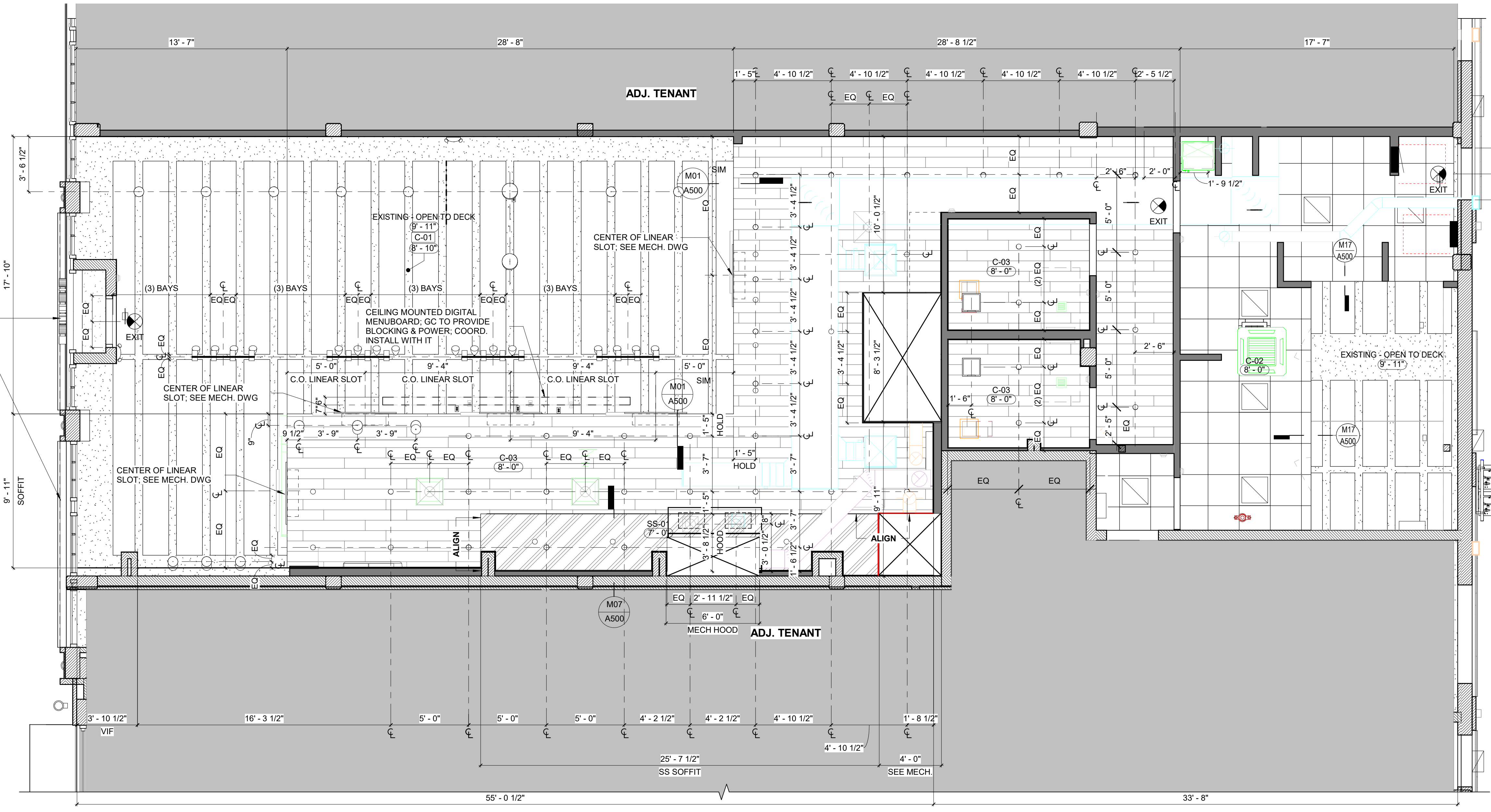


M01 1 1/2\"/>

M07 1 1/2\"/>

M17 1 1/2\"/>

M22 1 1/2\"/>



GENERAL REFLECTED CEILING PLAN NOTES

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6. SEE ELECTRICAL DWGS FOR FIXTURE DETAILS.
7. ALL FIXTURES TO BE UL RATED.

REFLECTED CEILING PLAN LEGEND

- 4\"/>
- PENDANT SMALL
- PENDANT LARGE
- TRACK LIGHT
- 2X2 LED
- LED EXIT SIGN
- EXPOSED CEILING - OPEN TO DECK C-01
- 24\"/>
- WOOD PANEL CEILING C-03
- STAINLESS STEEL SS-01
- 24X24 CEILING CASSETTE - REF. MECH DWGS
- EXHAUST FAN - REF. MECH DWGS
- MECH. GRILLE/DIFFUSER - REF. MECH DWGS
- SOFFIT MOUNTED LINEAR SLOTS - REF. MECH DWGS

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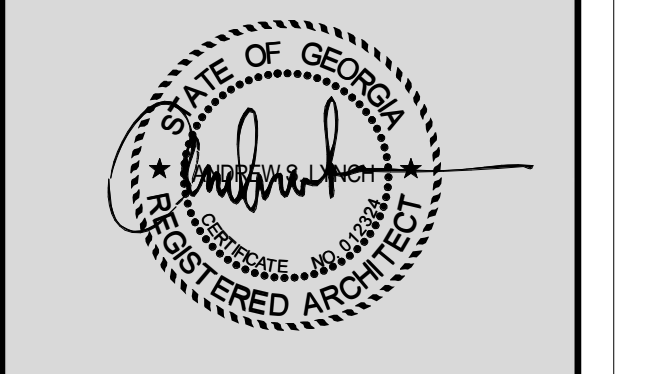
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No.	Date	Description



FIRST FLOOR REFLECTED CEILING PLAN

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 Project No. 2228.00
 Drawing No.

A500

3/10/2023 5:32:55 PM

GENERAL MECHANICAL SYMBOLS	
	REVISION NUMBER - SHOWN ON PLANS
	POINT WHERE NEW CONNECTS TO EXISTING
	NUMBER OF DETAIL ON SHEET
	NUMBER OF SHEET WHERE DETAIL APPEARS
	KEYNOTE
	CONTINUATION SYMBOL
	ROOM NAME AND NUMBER
	ITEM TO BE DEMOLISHED
	AREA NOT IN CONTRACT
	PIPE SIZE TAG (DIAMETER) ABOVE GROUND PIPING
	PIPE SLOPE TAG BELOW GROUND PIPING
	PIPE INVERT ELEVATION TAG (E)
	PIPING BEING DEMOLISHED

ABBREVIATIONS			
Ø	ROUND	LVR	LOUVER
ABV	ABOVE	MAX	MAXIMUM
AD	AREA DRAIN	MD	MOTORIZED DAMPER
ADD	ADDENDUM	MECH	MECHANICAL
AFF	ABOVE FINISHED FLOOR	MFR	MANUFACTURER
ALT	ALTERNATE	MIN	MINIMUM
AP	ACCESS PANEL	MISC	MISCELLANEOUS
ARCH	ARCHITECT/ARCHITECTURAL	MTR	MOTOR
BFF	BELOW FINISHED FLOOR	NC	NORMALLY CLOSED
BLW	BELOW	NIC	NOT IN CONTRACT
CAP	CAPACITY	NO	NUMBER
CB	CATCH BASIN	NO	NORMALLY OPEN
CLG	CEILING	NTS	NOT TO SCALE
CO	CLEAN OUT	PD	PRESSURE DROP
CW	COLD WATER	PV	POST INDICATOR VALVE
D	DEGREE	PRESS	PRESSURE
DIA	DIAMETER	PRV	PRESSURE REDUCING VALVE
DN	DOWN	PSI	POUNDS PER SQUARE INCH
EA	EACH	PSIG	POUNDS PER SQUARE INCH GAUGE
ELEC	ELECTRICAL	PWR	POWER
EQUIP	EQUIPMENT	REC	RECESSED
E/A	EXHAUST AIR	RED	REDUCER
F	DEGREES FAHRENHEIT	RM	ROOM
FD	FLOOR DRAIN	RPM	REVOLUTIONS PER MINUTE
FDC	FIRE DEPARTMENT CONNECTION	SF	SQUARE FOOT
FL	FLOOR	SN	SANITARY
FO	FUEL OIL	SF	SQUARE FOOT
FOV	FUEL OIL VENT	SD	SMOKE DAMPER
FOR	FUEL OIL RETURN	SM	SURFACE MOUNT
FOS	FUEL OIL SUPPLY	SP	STANDPIPE
FBM	FEET PER MINUTE	SP	STATIC PRESSURE
FT	FOOT/FEET	T	THERMOSTAT
GAL	GALLON	TD	TEMPERATURE DROP
GF	GAS-FIRED	TEMP	TEMPERATURE
GC	GENERAL CONTRACTOR	TYP	TYPICAL
GP	GALLONS PER MINUTE	UG	UNDERGROUND
HB	HOSE BIB	V	VENT
HP	HORSE POWER	VENT	VENTILATION
HTR	HEATER	W	WASTE
HYD	HYDRANT	WH	WALL HYDRANT
ID	INDIRECT		
IN	INCH		
INV	INVERT		
LB	POUND		

EQUIPMENT ABBREVIATIONS			
AC	AIR CONDITIONING UNIT	ET	EXPANSION TANK
ACCU	AIR COOLING CONDENSING UNIT	EWH	ELECTRIC WATER HEATER
AHU	AIR HANDLING UNIT	FCU	FAN COIL UNIT
AS	AIR SEPARATOR	FP	FIRE PUMP
B	BOILER	GI	GREASE INTERCEPTOR
CH	CHILLER	GRV	GRAVITY ROOF VENTILATOR
CT	COOLING TOWER	HWP	HEATING WATER PUMP
CUH	CABINET UNIT HEATER	HRU	HEAT RECOVERY UNIT
CHWP	CHILLED WATER PUMP	PRV	POWER ROOF VENTILATOR
DBP	DOMESTIC WATER BOOSTER PUMP	RE	RETURN/EXHAUST FAN
DC	DUCT MOUNTED COIL	RTU	ROOFTOP UNIT
DCP	DOMESTIC WATER CIRCULATING PUMP	SP	SUMP PUMP
EF	EXHAUST FAN	UH	UNIT HEATER
EDC	ELECTRIC DUCT COIL	WH	WATER HEATER

NOTE
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

FIRE PROTECTION SHEET INDEX	
F000	FIRE PROTECTION TITLE SHEET
F101	FIRE PROTECTION PLAN

FIRE PROTECTION SYMBOLS	
	FIRE PROTECTION DRY
	FIRE PROTECTION OTHER
	FIRE PROTECTION PRE-ACTION
	FIRE PROTECTION WET
	COMBINATION FIRE & DOMESTIC
	UPRIGHT SPRINKLER HEAD
	PENDANT SPRINKLER HEAD
	RECESSED SPRINKLER HEAD
	CONCEALED SPRINKLER HEAD
	DRY SPRINKLER HEAD
	SIDEWALL SPRINKLER HEAD
	EXTENDED COVERAGE SIDEWALL SPRINKLER HEAD
	OBSTRUCTION FROM DUCTWORK 48" AND GREATER
	CHECK VALVE
	ALARM CHECK VALVE
	TAMPER DETECTION VALVE
	DRY PIPE VALVE
	INDICATING BUTTERFLY VALVE
	POST INDICATOR VALVE
	VALVE NONRISING STEM
	OS&Y VALVE
	PREACTION VALVE
	DELUGE VALVE
	THRUST BLOCK
	PIPE ANCHOR
	FREE-STANDING SIAMSESE FIRE DEPARTMENT CONNECTION
	SIAMSESE FIRE DEPARTMENT CONNECTION
	SINGLE FIRE DEPARTMENT CONNECTION
	RISER
	DOUBLE CHECK (OS&Y)
	DOUBLE CHECK (BUTTERFLY W/ TAMPER)
	REDUCED PRESSURE ZONE
	EQUIPMENT TAG

PROJECT GENERAL NOTES

A COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, AND EQUIPMENT TO PREVENT CONFLICTS.

B FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.

C LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.

D PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.

E MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE, VISUAL INSPECTION OR HAND OPERATION, WHERE INDICATED OR REQUIRED. PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.

F ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.

G REFER TO HVAC SERIES DRAWINGS FOR GAS AND A.C. CONDENSATE DRAIN PIPING.

H PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.

I FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.

J INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.

K ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.

L INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL, IN ROOMS WITHOUT CEILING.

M THE CONTRACTOR'S WORK SCHEDULE SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER.

N PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT, PLUMBING FIXTURES, AND DIFFUSERS.

O CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.

P PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.

Q LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.

R ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.

S PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL AS PRESCRIBED IN CSFM STANDARD 43-1 AND SHALL BE U.L. LISTED.

T REMOVE ALL UNUSED PIPING, DUCTWORK AND ACCESSORIES.

U THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING, PRIOR TO FINAL BID, ALL EXISTING CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN TENANT SPACE AND WITHIN CLOSE PROXIMITY OF TENANT SPACE.

V THE MECHANICAL CONTRACTOR SHALL PERFORM SERVICE AND REPAIR ON THE EXISTING EQUIPMENT AND ITS ACCESSORIES AS FOLLOWS: CLEAN ALL COILS, REPLACE THE FILTERS AND BELTS, INSPECT, REPAIR, OR REPLACE THE ECONOMIZERS, DRIVES AND FAN BEARINGS, MOTORS, CONTROL COMPONENTS, VALVES AND ANY OTHER ITEM NECESSARY FOR A COMPLETE AND PROPER OPERATING SYSTEM. THIS CONTRACTOR SHALL ALSO VISIT THE SITE, PRIOR TO FINAL BIDDING, AND VERIFY ALL EXISTING SITE CONDITIONS. PROVIDE ALL MATERIAL AND COMPONENTS AS NEEDED TO BRING THE UNITS TO FULL COMPLIANCE OF THE LANDLORD'S CRITERIA AND LOCAL AUTHORITY HAVING JURISDICTION.

W WHERE FLOOR DRAINS OCCUR WITHIN THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK. UNSEAL DRAINS AT COMPLETION OF CONSTRUCTION.

X THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AS WELL AS THOSE WHICH CAN BE REASONABLY ANTICIPATED INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.

FIRE PROTECTION GENERAL NOTES

A PROVIDE ALTERATIONS TO THE EXISTING FIRE PROTECTION SYSTEM AS REQUIRED TO ACCOMMODATE THE NEW FLOOR PLAN AND NEW CEILING TYPES. PROVIDE A COMPLETE WET TYPE SYSTEM INCLUDING NEW MAINS, BRANCHES, HEADS, VALVES, AND ACCESSORIES AS REQUIRED. REUSE EXISTING SYSTEM EQUIPMENT WHERE APPLICABLE. THE SYSTEM SHALL BE INSTALLED ACCORDS TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS AND AS PER REQUIREMENTS OF THE STATE BUILDING CODE, LOCAL FIRE DEPARTMENT, AND ALL FEDERAL, STATE, AND LOCAL AUTHORITIES, NFPA, AND FACTORY MUTUAL.

B THE BUILDINGS COMPLETE OPERATIONAL FIRE PROTECTION SYSTEMS SHALL REMAIN IN PLACE. THIS CONTRACTOR SHALL REPAIR ANY DAMAGE TO THIS SYSTEM CREATED BY THE REMOVAL OF ANY OTHER MECHANICAL SYSTEMS OR COMPONENTS.

C THIS CONTRACTOR SHALL COORDINATE PHASING OF SPRINKLER WORK WITH THE GENERAL CONTRACTOR PRIOR TO STARTING WORK.

D THIS CONTRACTOR SHALL PREPARE HYDRAULIC CALCULATIONS BASED UPON THE CONFIGURATION OF THE ACTUAL SYSTEM DESIGN AS SHOWN ON THIS CONTRACTOR'S SHOP DRAWINGS.

E THE SPRINKLER SYSTEM SHALL BE DESIGNED BASED UPON ACTUAL WATER FLOW TEST DATA OBTAINED AT OR NEAR THE JOB SITE.

F REFER TO REFLECTED CEILING PLANS FOR ADDITIONAL INFORMATION REGARDING SPRINKLER HEAD LOCATION AND PIPE, UNLESS NOTED OTHERWISE.

G DIVISION 21 CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR PROPER INSTALLATION OF THE FIRE PROTECTION SYSTEMS ALARM DEVICES INVOLVED WITH FIRE SPRINKLER SYSTEM.

H ALL SPRINKLER SYSTEM PIPING SHALL BE CONCEALED ABOVE THE SUSPENDED CEILING SYSTEM, UNLESS NOTED OTHERWISE. WRITTEN AUTHORIZATION SHALL BE OBTAINED FROM THE ARCHITECT PRIOR TO EXPOSING ANY PIPING IN ANY ROOM WHICH HAS A SUSPENDED CEILING.

I THIS DRAWING INDICATES A GENERAL PIPING ARRANGEMENT AND SUGGESTED SIZING ONLY. THIS CONTRACTOR SHALL DETERMINE THE ACTUAL PIPE SIZING REQUIRED AND COORDINATE WORK WITH ALL OTHER TRADES TO AVOID CONFLICTS.

J THIS CONTRACTOR SHALL PROVIDE ALL ADDITIONAL SPRINKLER HEADS AS REQUIRED TO ENSURE AN APPROVED FIRE PROTECTION SYSTEM AT NO ADDITIONAL COST TO THE OWNER.

K AUXILIARY DRAINS SHALL BE EXPOSED WITH 1" DRAIN VALVES. WHEN 5 OR MORE GALLONS ARE TRAPPED, THIS CONTRACTOR SHALL PROVIDE FIXED PIPING TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE DRAIN, WHEN LESS THAN 5 GALLONS ARE TRAPPED, A HOSE BIB SHALL BE PROVIDED AT THE DRAIN VALVE.

L AUXILIARY DRAINS SHALL NOT BE LOCATED ABOVE PLASTER OR GYPSUM BOARD CEILING SYSTEMS, ONLY BY A SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER WILL A VARIANCE BE PROVIDED.

M AN INSPECTOR'S TEST CONNECTION SHALL BE PROVIDED FOR EACH FIRE SPRINKLER ZONE. THIS CONTRACTOR SHALL PROVIDE FIXED PIPING FROM THE TEST CONNECTION TO AN ADEQUATELY SIZED RECEPTOR WHICH IS CAPABLE OF ACCEPTING THE FULL FLOW OF THE TEST. EXTERIOR DISCHARGE OF THE TEST CONNECTION SHALL BE PERMITTED ONLY BY SPECIFIC WRITTEN INSTRUCTION FROM THE ENGINEER.

N SHOW ALL ROOM NUMBERS ON SHOP DRAWING PLANS.

O ROUTE SPRINKLER PIPING SUCH THAT IT DOES NOT RUN ABOVE ELECTRICAL PANELS, SWITCHGEAR, OR SIMILAR EQUIPMENT. SPRINKLER MAINS SHALL NOT RUN THROUGH ELECTRICAL OR COMMUNICATION ROOMS. SPRINKLER HEADS IN THESE ROOMS SHALL BE SERVED BY A DEDICATED BRANCH LINE FOR EACH ROOM.



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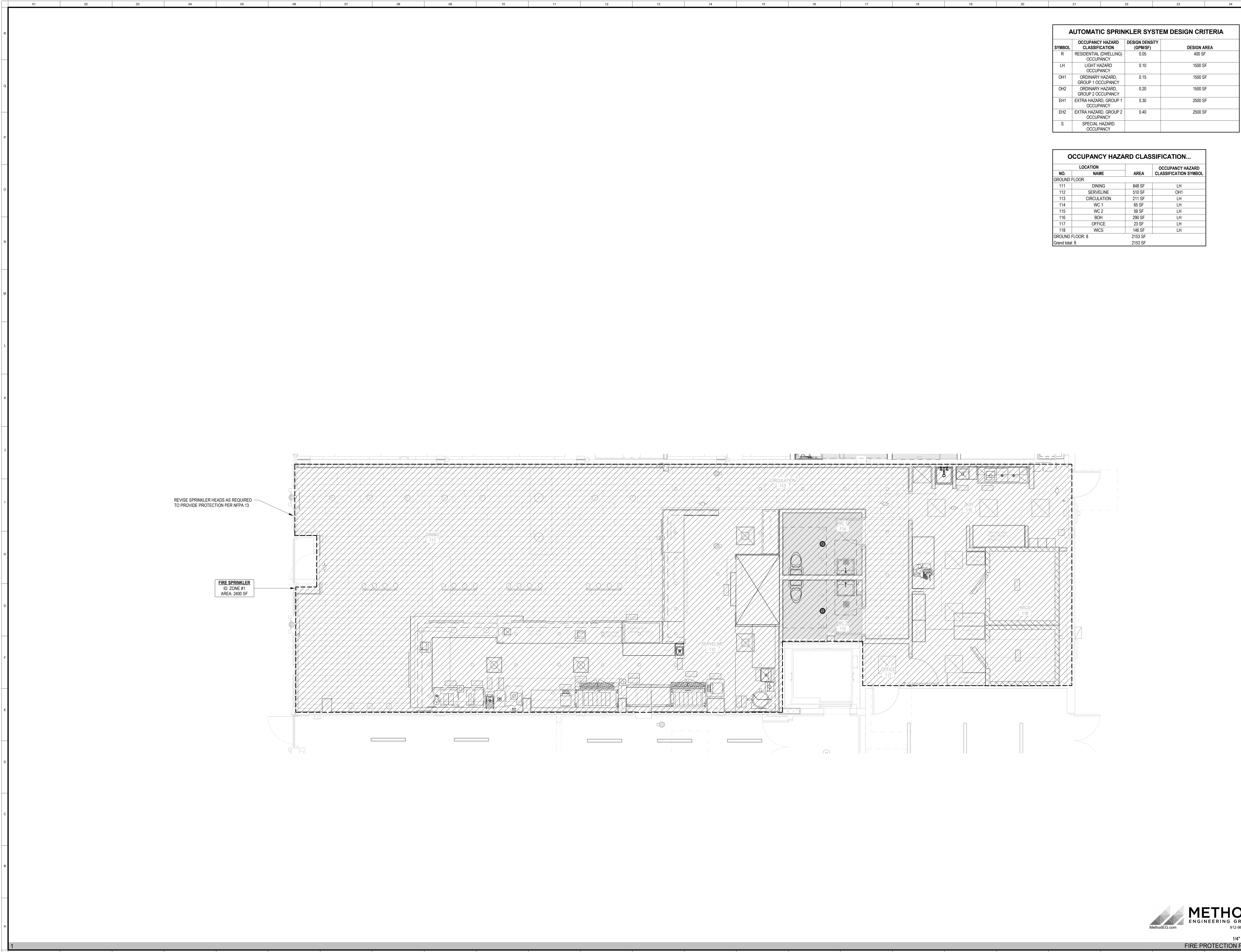


FIRE PROTECTION TITLE SHEET

Status 100%
Date FEBRUARY 20TH, 2023
Project No. 2228.00
Drawing No.

F000





AUTOMATIC SPRINKLER SYSTEM DESIGN CRITERIA			
SYMBOL	OCCUPANCY HAZARD CLASSIFICATION	DESIGN DENSITY (GPM/SF)	DESIGN AREA
R	RESIDENTIAL (DWELLING) OCCUPANCY	0.05	400 SF
LH	LIGHT HAZARD OCCUPANCY	0.10	1500 SF
OH1	ORDINARY HAZARD, GROUP 1 OCCUPANCY	0.15	1500 SF
OH2	ORDINARY HAZARD, GROUP 2 OCCUPANCY	0.20	1500 SF
EH1	EXTRA HAZARD, GROUP 1 OCCUPANCY	0.30	2500 SF
EH2	EXTRA HAZARD, GROUP 2 OCCUPANCY	0.40	2500 SF
S	SPECIAL HAZARD OCCUPANCY		

OCCUPANCY HAZARD CLASSIFICATION...			
NO.	LOCATION NAME	AREA	OCCUPANCY HAZARD CLASSIFICATION SYMBOL
GROUND FLOOR			
111	DINING	848 SF	LH
112	SERVELINE	510 SF	OH1
113	CIRCULATION	211 SF	LH
114	WC 1	65 SF	LH
115	WC 2	59 SF	LH
116	BOH	290 SF	LH
117	OFFICE	23 SF	LH
118	WICS	146 SF	LH
GROUND FLOOR: 8		2153 SF	
Grand total: 8		2153 SF	



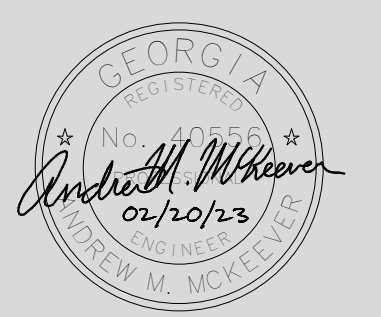
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FIRE PROTECTION PLAN

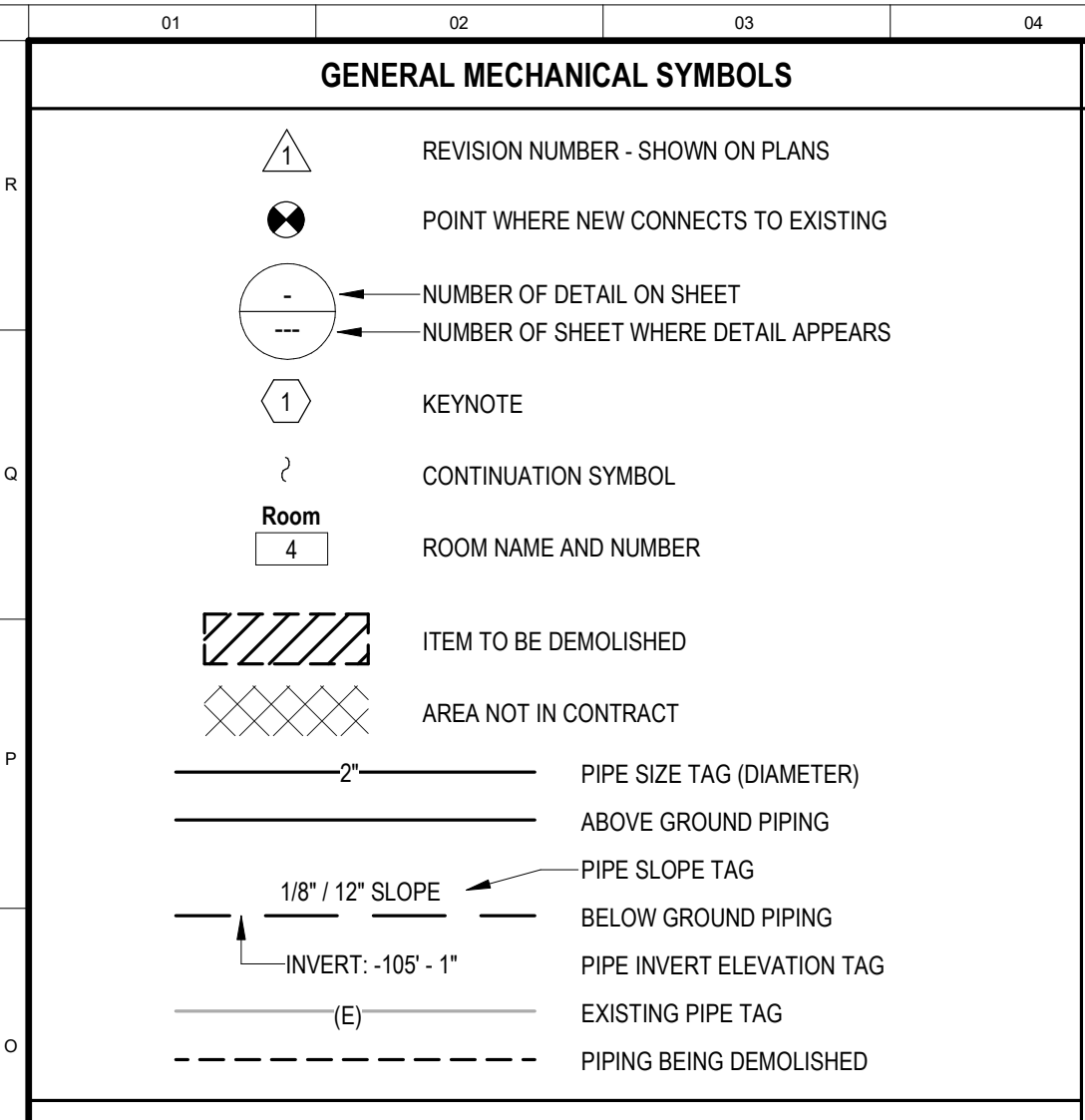
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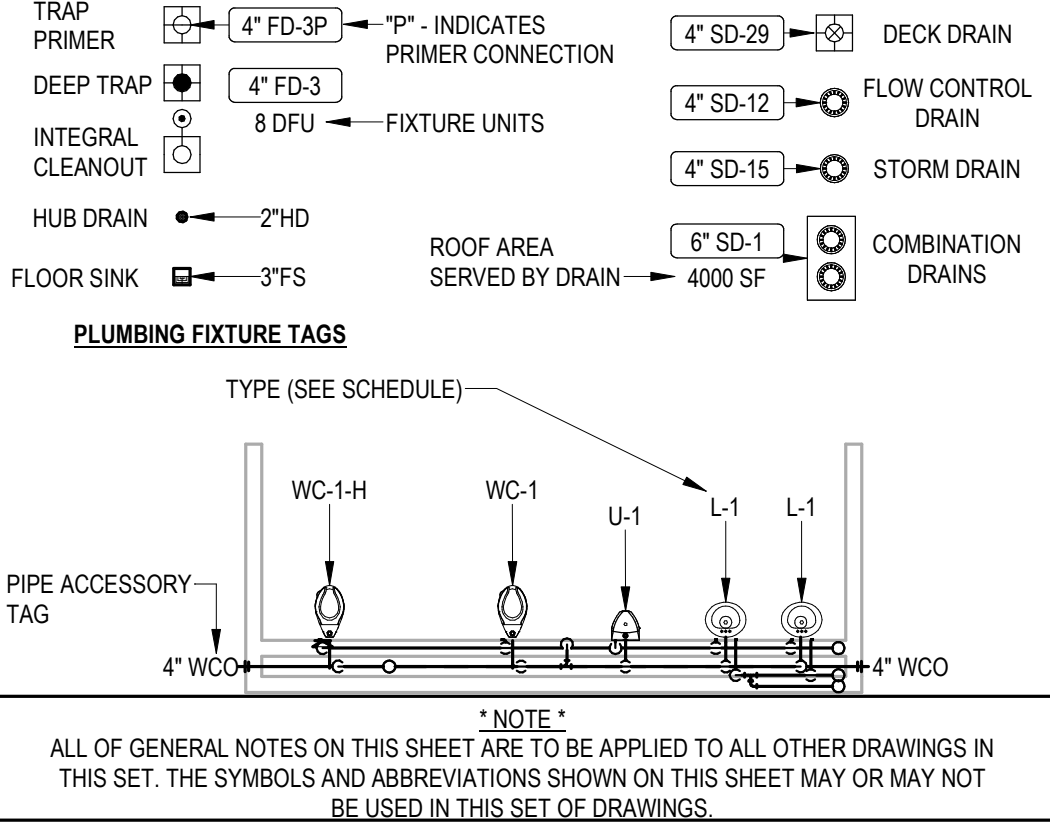
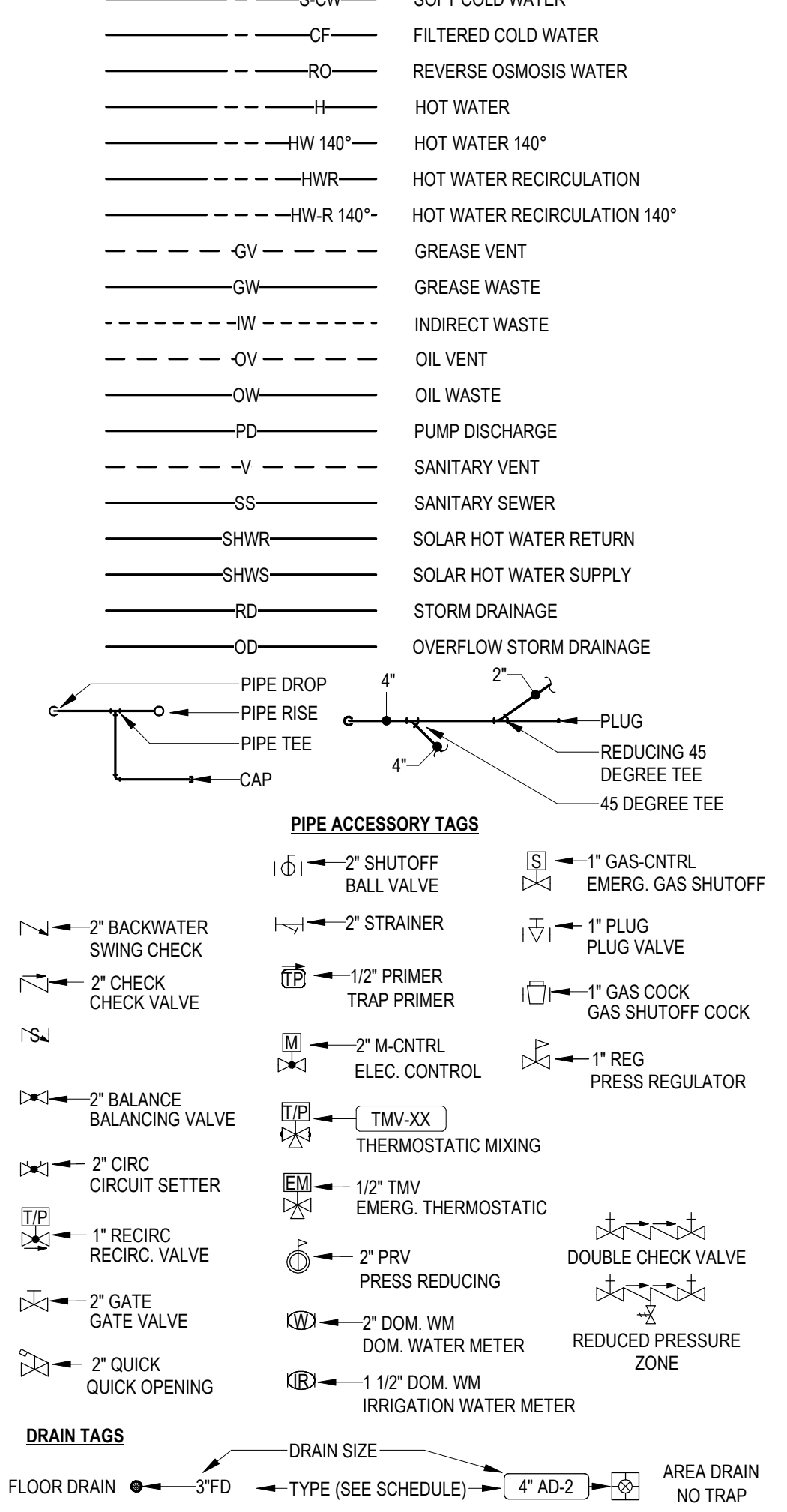
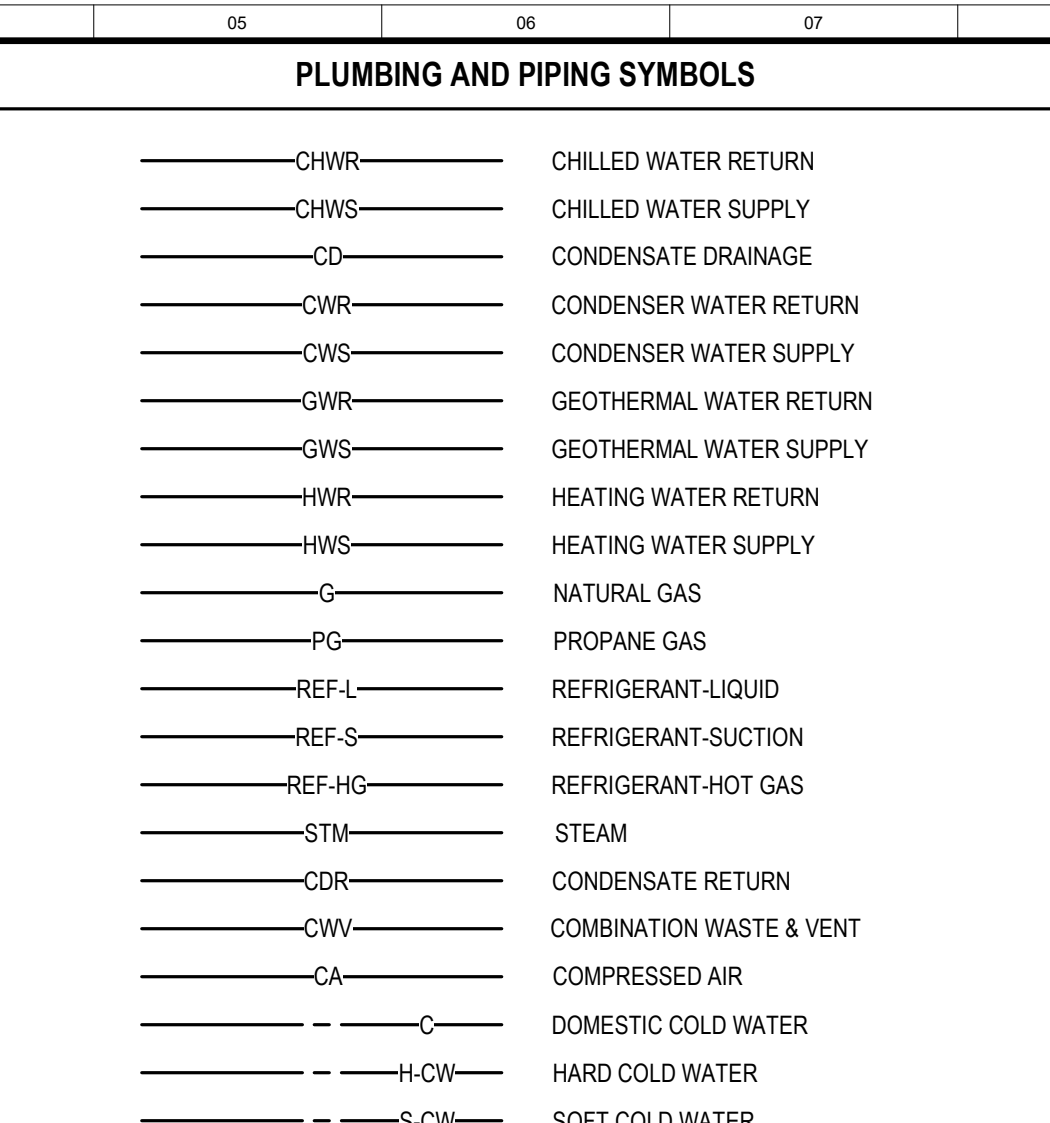
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FIRE PROTECTION PLAN

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ABBREVIATIONS

Ø	ROUND	LWT	LEAVING WATER TEMPERATURE
AAV	AIR ADMITTANCE VALVE	MIA	MIXED AIR
ABV	ABOVE	MAX	MAXIMUM
AC	ABOVE CEILING	MBH	ONE THOUSAND BTU PER HOUR
AD	AREA DRAIN	MCF	ONE THOUSAND CUBIC FEET
ADD	ADDENDUM	MD	MOTORIZED DAMPER
AFF	ABOVE FINISHED FLOOR	MCH	MECHANICAL
ALT	ALTERNATE	MFR	MANUFACTURER
AP	ACCESS PANEL	MIN	MINIMUM
ARCH	ARCHITECT/ARCHITECTURAL	MISC	MISCELLANEOUS
BF	BELOW FINISHED FLOOR	MTR	MOTOR
BLW	BELOW	MUA	MAKE UP AIR
BTU	BRITISH THERMAL UNITS	NC	NOISE CRITERIA
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NORMALLY CLOSED
CAP	CAPACITY	NIC	NOT IN CONTRACT
CB	CATCH BASIN	NO	NORMALLY OPEN
CFM	CUBIC FEET PER MINUTE	NO	NORMALLY OPEN
CLG	CEILING	NTS	NOT TO SCALE
CO	CLEAN OUT	O	OUTSIDE AIR
CW	COLD WATER	O/A	OUTSIDE AIR
D	DEGREE	ORD	OVERFLOW ROOF DRAIN
DB	DRY BULB	PD	PRESSURE DROP
DIA	DIAMETER	PIV	POST INDICATOR VALVE
DN	DOWN	PIV	POST INDICATOR VALVE
EA	EACH	PIV	POST INDICATOR VALVE
EAT	ENTERING AIR TEMPERATURE	PIV	POST INDICATOR VALVE
ELEC	ELECTRICAL	PSIG	POUNDS PER SQUARE INCH GAUGE
EQUIP	EQUIPMENT	PSI	POUNDS PER SQUARE INCH
EWC	ELECTRIC WATER COOLER	PSIG	POUNDS PER SQUARE INCH GAUGE
EWT	ENTERING WATER TEMPERATURE	PWR	POWER
EA	EXHAUST AIR	R	DUCT RISER
EXIST	EXISTING	R/A	RETURN AIR
FCO	DEGREES FAHRENHEIT	RCP	ROOF DRAIN
FDC	FLOOR CLEAN OUT	REC	RECESSED
FDC	FLOOR DRAIN	REC	RECESSED
FDC	FLOOR DRAIN	REC	RECESSED
FL	FLOOR	RH	RELATIVE HUMIDITY
FDC	FIRE DEPARTMENT CONNECTION	R/LA	RELIEF AIR
FL	FLOOR	RM	ROOM
FOV	FUEL OIL VENT	RPM	REVOLUTIONS PER MINUTE
FOR	FUEL OIL RETURN	RW	RAIN WATER
FOS	FUEL OIL SUPPLY	SF	SQUARE FOOT
FS	FLOOR SINK	SIA	SUPPLY AIR
FT	FOOT/FEET	SAN	SANITARY
GAL	GALLON	SD	SMOKE DAMPER
GF	GAS-FIRED	SM	SURFACE MOUNT
GC	GENERAL CONTRACTOR	SP	STANDPIPE
GCO	GROUND CLEAN OUT	SP	STATIC PRESSURE
GPM	GALLONS PER MINUTE	SS	SANITARY SEWER
GW	GREASE WASTE	SV	SHUT OFF VALVE
HB	WALL HYDRANT	T	THERMOSTAT
HP	HORSE POWER	TD	TEMPERATURE DROP
HTG	HEATING	TR	TRENCH DRAIN
HTR	HEATER	TEMP	TEMPERATURE
HW	HOT WATER	TYP	TYPICAL
HYD	HYDRANT	UG	UNDERGROUND
ID	INDIRECT	UNO	UNLESS NOTED OTHERWISE
IN	INCH	VAC	VACUUM
INV	INVERT	V	VENT
LB	POUNDS	VAV	VARIABLE AIR VOLUME
LBHR	POUNDS PER HOUR	VENT	VENTILATION
LAT	LEAVING AIR TEMPERATURE	VTR	VENT THROUGH ROOF
LPG	LIQUEFIED PETROLEUM GAS	VTS	VENT THROUGH SIDEWALL
LVR	LOUISER	W	WASTE
		WB	WET BULB
		WCO	WALL CLEAN OUT
		WH	WATER HEATER



- ### PLUMBING GENERAL NOTES
- REMOVE ALL UNUSED PIPING AND ACCESSORIES.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING, PRIOR TO FINAL BID, ALL EXISTING CONDITIONS FOR PLUMBING SYSTEMS WITHIN TENANT SPACE AND WITHIN CLOSE PROXIMITY OF TENANT SPACE.
 - WHERE FLOOR DRAINS OCCUR WITHIN THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM ENTERING DRAIN OPENING PRIOR TO START OF WORK. UNSEAL DRAINS AT COMPLETION OF CONSTRUCTION.
 - COORDINATE INSTALLATION OF PIPING TO PREVENT CONFLICTS.
 - THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE DOCUMENTS AS WELL AS THOSE WHICH CAN BE REASONABLY ANTICIPATED INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.
 - FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM, AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE 2019 INTERNATIONAL PLUMBING CODE WITH ALL APPLICABLE STATE AMENDMENTS, LOCAL CODES, AND ORDINANCES.
 - ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.
 - LOCATE PIPING AND PLUMBING EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.
 - PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL AS PRESCRIBED IN CSFM STANDARD 43-1 AND SHALL BE U.L. LISTED. REFER TO ARCHITECTURAL DRAWINGS FOR ASSEMBLY RATINGS.
 - PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.
 - MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE. VISUAL INSPECTION OR HAND OPERATION, WHERE INDICATED OR REQUIRED, PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.
 - PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
 - FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.
 - INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURERS' WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
 - LOCATIONS OF PIPING AND EQUIPMENT AS INDICATED ON THE DRAWING, ARE APPROXIMATE AND SUBJECT TO MINOR ADJUSTMENTS IN THE FIELD. WORK SHALL BE COORDINATED WITH ALL OTHER TRADES TO AVOID INTERFERENCE IN THE FIELD.
 - INSTALL EXPOSED PIPING AS HIGH AS PRACTICAL, IN ROOMS WITHOUT CEILINGS.
 - THE CONTRACTOR'S WORK SCHEDULE SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER.
 - PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL PLUMBING FIXTURES.
 - CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.
 - PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.
 - REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF ALL PLUMBING FIXTURES.
 - ALL UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. VERIFY EXACT LOCATION AND INVERT ELEVATION IN FIELD BEFORE BEGINNING WORK.
 - COORDINATE ALL WORK WITH OTHER TRADES.
 - ALL PIPING ABOVE GRADE SHALL BE PROPERLY SUPPORTED FROM THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR BE SUPPORTED FROM CEILING TILES.
 - WATER PIPING ROUTED ABOVE CEILING AND IN EXTERIOR WALLS SHALL BE ROUTED ON THE HEATED SIDE OF CEILING INSULATION AND HEATED SIDE OF WALL INSULATION.
 - SANITARY AND DRAINAGE PIPING 2" AND SMALLER SHALL BE SLOPED AT 1/4" PER FOOT MIN. PIPING LARGER THAN 2" SHALL BE SLOPED AT 1/8" PER FOOT MIN.
 - TOPS OF ALL FLOOR DRAINS AND CLEANOUTS SHALL BE SET FLUSH WITH FINISHED FLOOR.
 - PROVIDE INLINE TRAP SEAL DEVICES ON ALL FLOOR DRAINS, UNO.
 - PROVIDE DRAIN VALVES AT LOW POINTS IN ALL WATER PIPING SYSTEMS.
 - ALL WATER, VENT, AND GAS PIPING SHALL BE INSTALLED ABOVE THE CEILING, UNO.
 - ALL SOIL, WASTE AND STORM PIPING SHALL BE INSTALLED BELOW THE FLOOR, UNO.
 - PROVIDE CLEANOUTS AT THE BASE OF ALL SOIL, WASTE, VENT AND STORM RISER OVER ONE STORY IN HEIGHT. ALL WALL CLEANOUTS SHALL BE INSTALLED 18" AFF, UNO.
 - WALL HYDRANTS SHALL BE MOUNTED 18" AFF, UNO. WALL HYDRANTS SHALL BE IN A LOCKABLE RECESSED BOX.
 - PROVIDE CLEANOUT IN ACCESSIBLE LOCATION AT THE BASE OF ALL PLUMBING RISERS.
 - LOCATE ALL DRAINAGE PIPING AND CLEANOUTS CENTERED IN THE CORRIDORS, UNO. COORDINATE THE LOCATIONS OF CLEANOUTS WITH FLOOR PATTERN. ALL CLEANOUTS AT THE EXIT OF CORRIDORS SHALL BE TWO-WAY CLEANOUTS.
 - ALL VENT TERMINALS SHALL BE LOCATED A MIN. OF 10 FEET FROM ANY DOOR OPENING, OPERABLE WINDOW, OR FRESH AIR INTAKE.
 - WHERE MOUNTING HEIGHTS OF FIXTURES CONFLICT WITH FIXTURE HEIGHTS ON THE ARCHITECTURAL DRAWINGS, THE HEIGHTS SHOWN ON THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE.
 - HEAT TRACE SHALL BE APPLIED TO WATER PIPING INSTALLED IN UNCONDITIONED SPACES.
 - FIXTURES TRAPS SHALL BE PLACED AS CLOSE AS POSSIBLE TO THE FIXTURE OUTLET. VERTICAL DISTANCE SHALL NOT EXCEED 24 INCHES PER IPC 2018, SECTION 1002.1.
 - PIPING INSTALLED IN PLENUM SPACES SHALL MEET ASTM E-84, ASTM E-136, AND UL-723 STANDARDS FOR FLAME SPREAD AND SMOKE GENERATION. COORDINATE PLENUM LOCATIONS WITH MECHANICAL CONTRACTOR.
 - PIPE DRAIN AND HOT WATER SUPPLY TO UNDERCOUNTER DISHWASHERS FROM ADJACENT SINK.
 - PROVIDE THERMAL MIXING VALVE FOR ALL HAND WASH SINKS AND LAVATORIES.
 - WASHING MACHINE WASTE SHALL CONNECT TO A STANDPIPE. THE STANDPIPE SHALL NOT EXTEND LESS THAN 30 INCHES ABOVE THE WEIR OF THE STANDPIPE TRAP PER IPC 2018, SECTION 802.4.1.
 - DOMESTIC HOT WATER PIPE CONNECTIONS FOR PUBLIC LAVATORY FAUCETS SHALL BE NO MORE THAN 2 FEET FROM THE RECIRCULATED HOT WATER LOOP FOR MULTIPLE LAVATORIES, AND SHALL BE NO MORE THAN 8 INCHES FROM THE RECIRCULATED HOT WATER LOOP FOR A SINGLE LAVATORY PER IBC 2015, SECTION C404.5.1.
 - DOMESTIC WATER PIPING SHALL BE TYPE L COPPER WITH LEAD-FREE JOINTS.
 - WALL CLEANOUTS SHALL BE LOCATED IN LOCKABLE WALL ACCESS BOX.
 - ALL PLUMBING EQUIPMENT AND VALVES LOCATED ABOVE CEILINGS SHALL BE IDENTIFIED WITH AN ENGRAVED MARKER PERMANENTLY ATTACHED TO THE CEILING GRID.
 - SCHEDULED HEATING CAPACITY FOR WATER HEATERS SHALL BE DELIVERED AT SUPPLIED VOLTAGE.
 - WASTE AND VENT PIPING BELOW FLOOR AND THROUGH FLOOR SHALL BE 2" MINIMUM.
 - FIELD VERIFY LOCATION AND INVERTS OF SITE UTILITIES PRIOR TO INSTALLATION.
 - ALL PLUMBING FIXTURES SHALL BE WATER SENSE LABELED PRODUCTS.
 - PROVIDE AN ACCESS PANEL FOR SHUT-OFF VALVES AND HAMMER ARRESTORS INSTALLED ABOVE A HARD CEILING.
 - FIELD VERIFY ALL NEW WATER, WASTE, AND VENT PIPING CONNECTIONS AND PROVIDE NEW CONNECTIONS AS REQUIRED FOR PROPERLY OPERATING SYSTEMS.
 - PITCH UNDERFLOOR SANITARY WASTE PIPING AT 1/4" PER FOOT, UNLESS NOTED OTHERWISE.

DOMESTIC FIXTURE SCHEDULE

ID	DESCRIPTION	MANUFACTURER	MODEL	MATERIAL DESCRIPTION	MANUFACTURER	MODEL	TYPE	WASTE ROUGH-IN PIPE SIZE	COLD WATER ROUGH-IN PIPE SIZE	HOT WATER ROUGH-IN PIPE SIZE	SPECIFICATION
L-1	LAVATORY	DURAVIT	039600030	CERAMIC	KOHLER	K-1442-4A	SINGLE HANDLE FAUCET	2"	1/2"	1/2"	WALL HUNG, CERAMIC, NOMINAL 23-5/8"x21-1/2". SINGLE FAUCET HOLE. FIXTURE EQUALS BY KOHLER, SLOAN & ZURN. FAUCET EQUALS BY ZURN, CHICAGO & T&S BRASS. DRAIN & P-TRAP BY MCGUIRE, ZURN OR WATTS. SUPPLIES BY MCGUIRE, BRASS CRAFT OR WATTS. INSULATION KIT BY MCGUIRE, TRUEBRO OR SKAL-GUARD. CARRIER BY J.R. SMITH, JCSAM OR ZURN.
MS-1	MOP SINK	FIAT	MSB-2424	MOLDED STONE	ZURN	Z1986-SF	VACUUM BREAKER, INTEGRAL STOPS, CHROME PLATED	3"	1/2"	1/2"	MOLDED STONE, FLOOR MTD, 24"x24". FIXTURE EQUALS BY SWAN & ZURN. FAUCET EQUALS BY FIAT & SWAN. BUMPERGUARDS & HOSEBRACKET BY FIAT, SWAN OR ZURN. WALL GUARDS BY FIAT OR ZURN.
P-1	ICE MAKER SUPPLY BOX	SILOUX CHIEF	696-RG1010MF	ABS PLASTIC					1/2"		RECESSED ICE MAKER SUPPLY BOX WITH HAMMER ARRESTOR, EQUALS BY GATY & GUY GRAY.
WC-1-H	WATER CLOSET - FLOOR - TANK TYPE - ADA	TOTO	MS884114EL(G)	WHITE VITREOUS CHINA	TANK TYPE			3"	1/2"		ELONGATED BOWL, WATER CLOSET, 18" RIM HT. FIXTURE EQUALS BY AMERICAN STANDARD, KOHLER, SLOAN & ZURN. SEAT BY PLUMBTECH, BEMIS OR CENTOCO. SUPPLY BY MCGUIRE, ZURN OR WATTS.

DRAIN SCHEDULE

ID	DESCRIPTION	MANUFACTURER	MODEL	MATERIAL DESCRIPTION	STRAINER	WASTE PIPE SIZE	SPECIFICATION
3FD	FLOOR DRAIN	WATTS	FD-100-A	EPOXY COATED CAST IRON	NICKEL BRONZE	3"	EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, NO HUB OUTLET.
3FS	FLOOR SINK	WATTS	FS-710	EPOXY COATED CAST IRON	-	3"	8" SQUARE X 6" DEEP SANITARY FLOOR SINK WITH WHITE ACID RESISTANT PORCELAIN ENAMEL COATED INTERIOR, LOOSE SET PORCELAIN ENAMEL COATED CAST IRON 1/2" GRATE, ALUMINUM DOME BOTTOM STRAINER, AND NO HUB OUTLET.

DOMESTIC CIRCULATING PUMP SCHEDULE

ID	TYPE	DESIGN FLOW	HEAD	MOTOR POWER	REMARKS
HWC-1	INLINE	2.0 GPM	10.0 FT	0.33 hp	CONNECTED TO WH-1. SEE ELECTRICAL DRAWINGS FOR ELECTRICAL DATA.

GAS-FIRED WATER HEATER SCHEDULE

ID	MANUFACTURER	MODEL NO.	GAS-FIRED HEAT EXCHANGER GAS BURNER INPUT	UNIT WEIGHT	REMARKS
WH-1	RINNAI	TRW02CUAN	36000 Btu/h	165 lb	TANKLESS, 2 UNITS IN LINE, WALL-HANGING RACK, EXTERIOR MOUNTED, WH EQUALS BY RHEEM, A.O. SMITH, NAVIEN & INTELLIHOT.

GREASE INTERCEPTOR SCHEDULE


ID	TYPE	MANUFACTURER	MODEL	SPECIFICATION
GI-1		ZURN	GT-2700-50	50 GPM, 100 LB GREASE CAPACITY, CORROSION-RESISTANT COATED FABRICATED STEEL, VENTED INLET FLOW CONTROL DEVICE

HAMMER ARRESTOR SCHEDULE

TYPE ID	DESCRIPTION
H.A.	FIXTURE UNIT CAPACITY: 1-11

PLUMBING SHEET INDEX

P000	PLUMBING TITLE SHEET
P001	PLUMBING SPECS & DETAILS
P100	WASTE & VENT PLAN
P201	HOT & COLD WATER PLAN
P301	PLUMBING RISER DIAGRAMS



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Revisions

No	Date	Description

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REGISTERED PROFESSIONAL ENGINEER
NO. 12123
PLUMBING
MAY 1998



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PLUMBING SPECIFICATIONS

GENERAL PROVISIONS
 IMPOSED REGULATIONS: APPLICABLE PROVISIONS OF THE STATE AND LOCAL CODES AND OF THE FOLLOWING CODES AND STANDARDS, IN ADDITION TO THOSE LISTED ELSEWHERE IN THE SPECIFICATIONS, ARE HEREBY IMPOSED ON A GENERAL BASIS FOR PLUMBING WORK:
 INTERNATIONAL PLUMBING CODE - 2018 EDITION

SCOPE OF WORK: PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SUPERVISION TO CONSTRUCT COMPLETE AND OPERABLE PLUMBING SYSTEMS AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN. ALL MATERIALS AND EQUIPMENT USED SHALL BE NEW, UNDAMAGED AND FREE FROM ANY DEFECTS.
PRODUCT WARRANTIES: PROVIDE MANUFACTURER'S STANDARD PRINTED COMMITMENT IN REFERENCE TO A SPECIFIC PRODUCT AND NORMAL APPLICATION, STATING THAT CERTAIN ACTS OF RESTITUTION WILL BE PERFORMED FOR THE PURCHASER OR OWNER BY THE MANUFACTURER, WHEN AND IF THE PRODUCT FAILS WITHIN CERTAIN OPERATIONAL CONDITIONS AND TIME LIMITS. WHERE THE WARRANTY REQUIREMENTS OF A SPECIFIC SPECIFICATION SECTION EXCEEDS THE MANUFACTURER'S STANDARD WARRANTY, THE MORE STRINGENT REQUIREMENTS WILL APPLY AND MODIFIED MANUFACTURER'S WARRANTY SHALL BE PROVIDED. IN NO CASE SHALL THE MANUFACTURER'S WARRANTY BE LESS THAN ONE (1) YEAR.

ELECTRICAL WORK: COORDINATE THE PLUMBING AND FIRE PROTECTION WORK WITH ELECTRICAL WORK AND PROPERLY INTERFACE WITH THE ELECTRICAL SERVICE. IN GENERAL, AND EXCEPT AS OTHERWISE INDICATED, INSTALL MECHANICAL EQUIPMENT READY FOR ELECTRICAL CONNECTION. REFER TO ELECTRICAL SECTIONS OF THE SPECIFICATIONS FOR ELECTRICAL CONNECTION OF MECHANICAL EQUIPMENT.

UTILITY CONNECTIONS: COORDINATE THE CONNECTION OF MECHANICAL SYSTEMS WITH EXTERIOR UNDERGROUND UTILITIES AND SERVICES. COMPLY WITH THE REQUIREMENTS OF GOVERNING REGULATIONS, FRANCHISED SERVICE COMPANIES AND CONTROLLING AGENCIES. PROVIDE A SINGLE CONNECTION FOR EACH SERVICE EXCEPT WHERE MULTIPLE CONNECTION ARE INDICATED.

PLUMBING IDENTIFICATION MATERIALS:

PLASTIC PIPE MARKERS: PROJECT MANUFACTURER'S STANDARD PRE-PRINTED, FLEXIBLE OR SEMI-RIGID, PERMANENT, COLOR-CODED, PLASTIC-SHEET PIPE MARKERS, COMPLYING WITH ANSI A13.1.

PROVIDE FULL BAND PIPE MARKERS, EXTENDING 360 DEGREES AROUND PIPE AT EACH LOCATION, FASTENED BY SNAP-ON APPLICATION OF PRE-TENSIONED SEMI-RIGID PLASTIC PIPE MARKER.

IDENTIFYING SYSTEMS: INSTALL PIPE MARKER ON PIPING OF THE FOLLOWING PIPING SYSTEMS:

DOMESTIC COLD WATER, HOT WATER, AND HOT WATER RETURN PIPING

LOCATE PIPE MARKERS WHEREVER PIPING IS EXPOSED TO VIEW IN MECHANICAL ROOMS, ACCESSIBLE MAINTENANCE SPACES (INCLUDING ACCESSIBLE AREAS ABOVE CEILINGS), NEAR EACH VALVE AND CONTROL DEVICES, NEAR MAJOR EQUIPMENT ITEMS AND OTHER POINTS OF ORIGIN AND TERMINATION AND SPACED INTERMEDIATELY AT MAXIMUM SPACING OF 25 FEET ALONG EACH PIPING RUN.

DOMESTIC WATER PIPING SYSTEM

WATER DISTRIBUTION PIPING 4" AND SMALLER SHALL BE TYPE L HARD DRAWN COPPER TUBE, ASTM B88-83 WITH WROUGHT COPPER-SOLDER JOINT FITTINGS. CPVC OR PE-X IS ALLOWED AT OWNERS OPTION.

WATER HAMMER ARRESTERS SHALL BE BELLOW'S TYPE, PRECHARGED COMPRESSOR CHAMBER, STAINLESS STEEL CASING AND BELLOW'S. PROVIDE SIZES COMPLYING WITH PDI STANDARD WH-201. JOSAM 75000 SERIES, JAY R. SMITH FIG 3000, OR ZURN 1700 SERIES.

BALL VALVES: BALL VALVES SHALL HAVE TWO-PIECE BRONZE OR BRASS BODY, MEETING MSS-SP110, FULL OR STANDARD PORT, BLOWOUT-PROOF STEM AND ADJUSTABLE PACKING NUT INDEPENDENT OF HANDLE. VALVES SHALL BE RATED FOR 150 SWP, 600 WOG OR 300 CWP. VALVES SHALL BE BY APOLLO, MILWAUKEE, NIBCO, VICTAULIC, WATTS OR RED-WHITE.

GATE VALVES: VALVES 3 INCHES AND SMALLER SHALL BE ALL BRONZE, MEETING MSS-SP80, INSERTED BONNET, SOLID WEDGE, NON-RISING STEM TYPE AND RATED AT 125 SWP, 200 WOG. HANDLES SHALL BE MALLEABLE IRON WITH BRONZE STEM. VALVES SHALL BE BY MILWAUKEE, NIBCO, WATTS OR RED-WHITE.

GLOBE VALVES: VALVES 3 INCHES AND SMALLER SHALL BE ALL BRONZE, MEETING MSS-SP80, INSERTED BONNET WITH INTEGRAL SEAT AND RENEWABLE DISC. VALVES SHALL BE RATED AT 125 SWP, 200 WOG. HANDLES SHALL BE MALLEABLE IRON WITH BRONZE STEM. VALVES SHALL BE BY MILWAUKEE, NIBCO, WATTS OR RED-WHITE.

CHECK VALVES: VALVES 2 INCHES AND SMALLER SHALL BE BRONZE BODY WITH BRONZE SEAT AND DISC AND SHALL BE RATED AT 125 SWP, 200 WOG. VALVES SHALL BE BY MILWAUKEE, NIBCO, WATTS OR RED-WHITE.

FLOW CONTROL VALVES: VALVES FOR DOMESTIC HOT WATER RETURN SHALL HAVE BRASS AND STAINLESS STEEL BODIES, WITH INTEGRAL BALL VALVE, GROUND JOINT UNION, AND SOLDER ENDS. VALVE SHALL BE RATED FOR 600 PSIG AND FLOW RATE, AS SHOWN ON DRAWINGS. FLOW CONTROL VALVES SHALL BE AUTOFLOW MODEL FU-050, HAYES 2500 OR EQUIVALENT BY GRISWOLD.

SOIL, WASTE AND VENT PIPING SYSTEM

SOIL, WASTE AND VENT PIPING SHALL BE SCHEDULE 40 ABS-DWV (ASTM D2861-82) OR PVC-DWV (ASTM D2665-82) PIPE AND FITTINGS. JOINTS SHALL BE SOLVENT CEMENT SOCKET TYPE. SERVICE WEIGHT HUBLESS CAST IRON PIPE AND FITTINGS, ASTM A74. JOINTS IN UNDERGROUND CAST IRON PIPING SHALL BE MADE USING AN ASTM C596 NEOPRENE ELASTOMERIC COMPRESSION GASKET CONFORMING TO THE REQUIREMENTS OF ASTM C 1583. DRAINAGE PIPING SUBJECT TO CARRYING WATER IN EXCESS OF 140°F SHALL BE CAST IRON.

FLOOR DRAIN FD: PROVIDE COATED CAST IRON FLOOR DRAINS WITH INTEGRAL PIPE STOPS, FLASHING COLLAR, SEEPAGE FLANGE, 6 INCH DIAMETER ROUND NIKALOY STRAINER. FLOOR DRAINS SHALL BE BY: WADE, JOSAM, ZURN, J.R. SMITH & WATTS.

TESTING: THE PIPING OF THE SOIL, WASTE AND VENT SYSTEM SHALL BE TESTED WITH WATER BEFORE INSTALLING FIXTURES. THE WATER TEST SHALL BE APPLIED TO THE SOIL, WASTE AND VENTING SYSTEM EITHER IN ITS ENTIRETY OR IN SECTIONS. IF THE TEST IS APPLIED TO THE ENTIRE SYSTEM, ALL OPENINGS IN THE PIPING SHALL BE CLOSED EXCEPT THE HIGHEST OPENING, AND THE SYSTEM SHALL BE FILLED WITH WATER TO THE POINT OF OVERFLOW. IF THE SYSTEM IS TESTED IN SECTIONS, EACH OPENING OF THE SECTION UNDER TEST SHALL BE PLUGGED AND EACH SECTION SHALL BE FILLED WITH WATER AND TESTED WITH AT LEAST A 10 FOOT HEAD OF WATER. IN TESTING SUCCESSIVE SECTIONS, AT LEAST THE UPPER 10 FEET OF THE NEXT PRECEDING SECTION SHALL BE TESTED SO THAT EACH JOINT OR PIPE IN THE BUILDING EXCEPT THE UPPER MOST 10 FEET OF THE SYSTEM HAS BEEN SUBMITTED TO A TEST OF AT LEAST 10 FOOT HEAD OF WATER. THE WATER SHALL BE KEPT IN THE SYSTEM, OR IN THE PORTION UNDER TEST, FOR AT LEAST 30 MINUTES BEFORE THE INSPECTION STARTS. THE SYSTEM SHALL BE TIGHT AT ALL JOINTS. JOINTS THAT FAIL THE TEST SHALL BE REMADE AND RETESTED.

WATER HEATERS

ELECTRIC STORAGE WATER HEATER (WH-1): PROVIDE ELECTRIC COMMERCIAL TYPE FACTORY ASSEMBLED AND WIRED VERTICAL STORAGE TYPE WATER HEATERS. PROVIDE WITH GLASS-LINED ASME WELDED STEEL TANK RATED FOR 160 PSI, THERMALLY INSULATED WITH FOAM TYPE OR FIBERGLASS INSULATION AND ENCASED IN CORROSION RESISTANT STEEL JACKET WITH BAKED-ON ENAMEL FINISH. EQUIP WITH DRAIN VALVE, IMMERSION HEATERS, MAGNESIUM ANODE, EMERGENCY HIGH LIMIT CUT-OFF SWITCH TO PREVENT OVER-HEATING, AUTOMATIC IMMERSION THERMOSTAT(S) WITH TEMPERATURE RANGE FROM 120 DEGREES F TO 170 DEGREES F, AND TEMPERATURE AND PRESSURE RELIEF VALVE. HEATER SHALL CARRY MANUFACTURER'S STANDARD WARRANTY AND SHALL MEET OR EXCEED THE REQUIREMENTS OF ASHRAE 90.1. WATER HEATER SHALL BE BY A.O. SMITH DRE SERIES, BRADFORD WHITE MD SERIES OR RHEEM E SERIES.

DOMESTIC HOT WATER CIRCULATION PUMP: PUMP SHALL BE THE IN-LINE CENTRIFUGAL TYPE DESIGNED FOR 125 PSI WORKING PRESSURE WITH BRONZE BODY AND IMPELLER, MECHANICAL SEALS AND STAINLESS STEEL IMPELLER SHAFT. THE PUMP MOTOR SHALL BE THE OPEN DRIP-PROOF DESIGN WITH SLEEVE BEARINGS, BUILT-IN THERMAL OVER-LOAD PROTECTORS, AND SHALL OPERATE AT 1750 RPM. PUMP SHALL HAVE THE CAPACITIES AS SHOWN ON THE DRAWINGS.

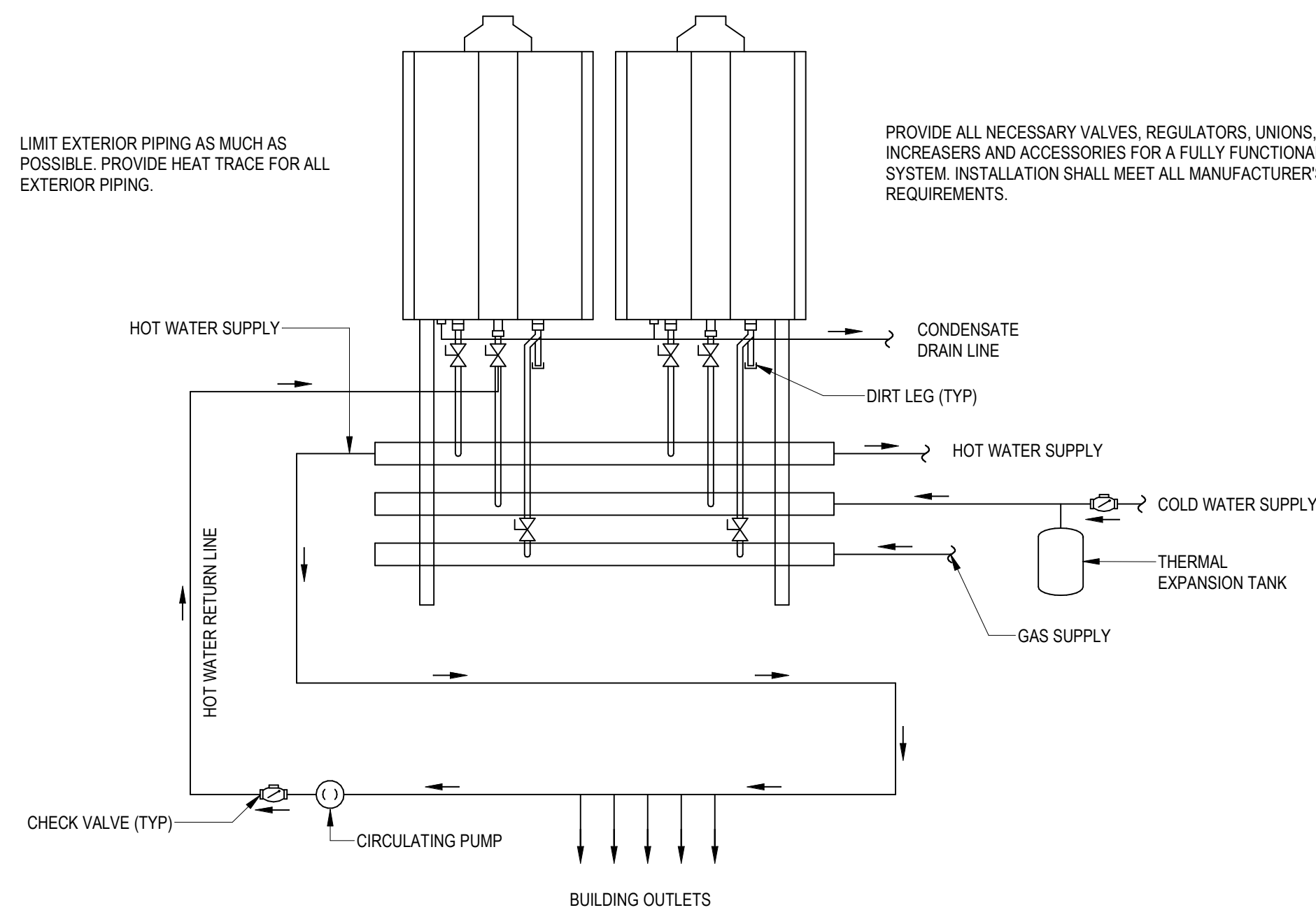
PIPE INSULATION: INSULATION SHALL BE PREFORMED, TWO-PIECE, HEAVY DENSITY FIBERGLASS WITH SELF SEALING ASJ JACKET CONFORMING TO FS HH-H-558 FORM B OR CELLULAR FOAM, TYPE III, CLASS 12. VALVES AND FITTINGS SHALL BE INSULATED WITH FIBERGLASS INSULATION OF THE SAME MATERIAL THICKNESS AS INSULATION ON ADJACENT PIPE AND HAVING A MOLDED PVC JACKET. JACKETS SHALL BE CERTAINTEEED SNAP-FORM OR ZESTON PVC. INSULATION THICKNESS SHALL BE 1 INCH THICK FOR ALL SIZES OF COLD WATER AND HOT WATER SUPPLY AND RETURN.

STERILIZATION: THE ENTIRE WATER DISTRIBUTION SYSTEM SHALL BE THOROUGHLY STERILIZED WITH A SOLUTION CONTAINING NOT LESS THAN 50 PARTS PER MILLION OF AVAILABLE CHLORINE. THE CHLORINATING MATERIAL SHALL BE LIQUID CHLORINE CONFORMING TO FEDERAL SPECIFICATION BB-C-120. THE STERILIZATION SOLUTION SHALL BE ALLOWED TO REMAIN IN THE SYSTEM FOR A PERIOD OF 6 HOURS, DURING WHICH TIME ALL VALVES AND FAUCETS SHALL BE OPENED AND CLOSED SEVERAL TIMES. AFTER STERILIZATION, THE SOLUTION SHALL BE FLUSHED FROM THE SYSTEM WITH CLEAN WATER UNTIL THE RESIDUAL CHLORINE CONTENT IS NOT GREATER THAN 0.2 PARTS PER MILLION.

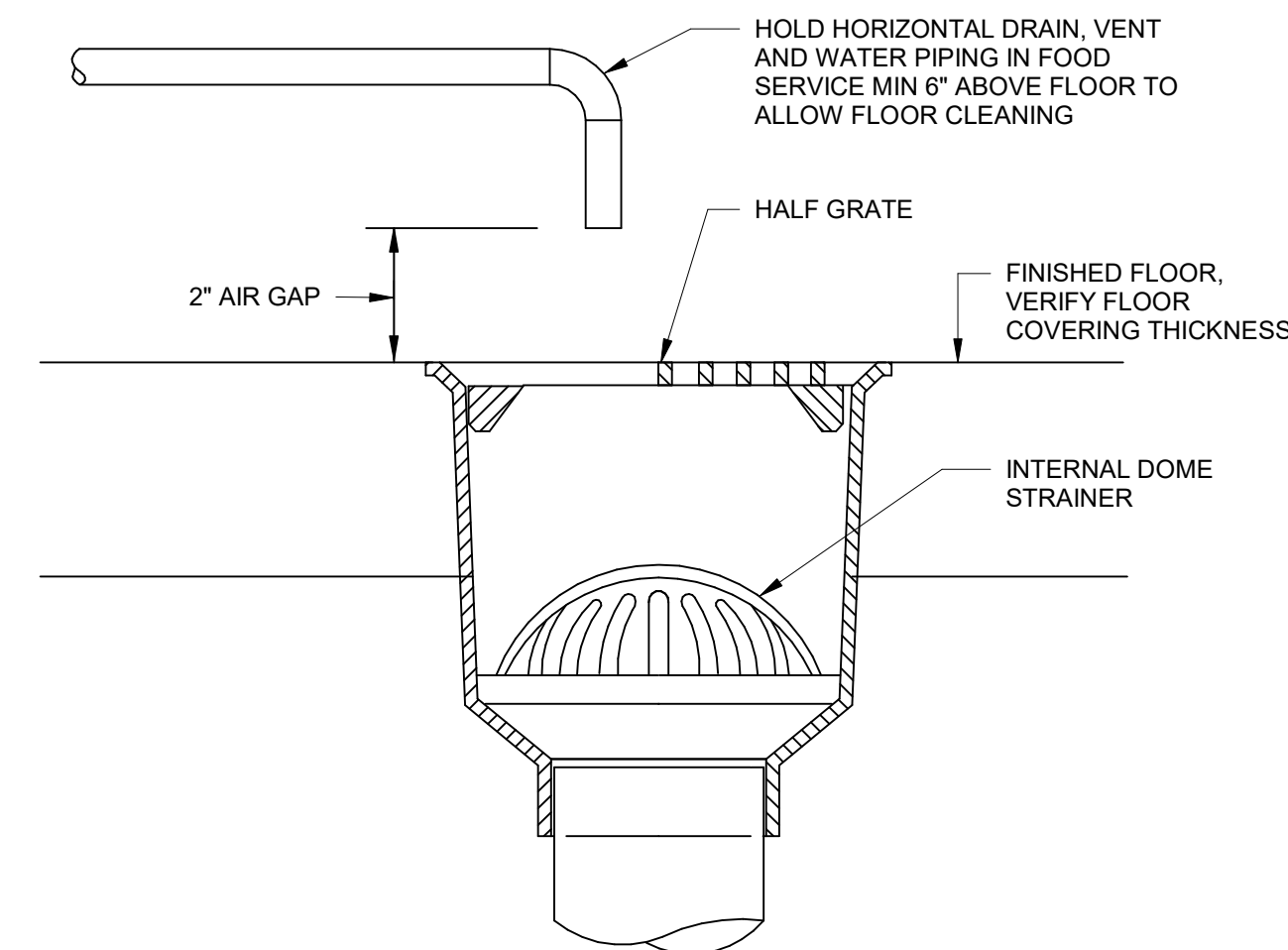
TESTING: THE HYDROSTATIC TEST SHALL BE MADE UPON COMPLETION OF THE ROUGH-IN AND BEFORE SETTING FIXTURES. THE ENTIRE DOMESTIC COLD WATER AND HOT WATER, AND HOT WATER CIRCULATION PIPING SYSTEM SHALL BE TESTED AT A HYDROSTATIC PRESSURE OF 100 PSIG AND PROVIDE TIGHT AT THIS PRESSURE FOR A PERIOD OF NOT LESS THAN 2 HOURS IN ORDER TO PERMIT INSPECTION OF ALL JOINTS. WHERE A PORTION OF THE WATER PIPING SYSTEM IS TO BE CONCEALED BEFORE COMPLETION, THIS PORTION SHALL BE TESTED SEPARATELY IN A MANNER DESCRIBED FOR THE ENTIRE SYSTEM.

GREASE INTERCEPTOR

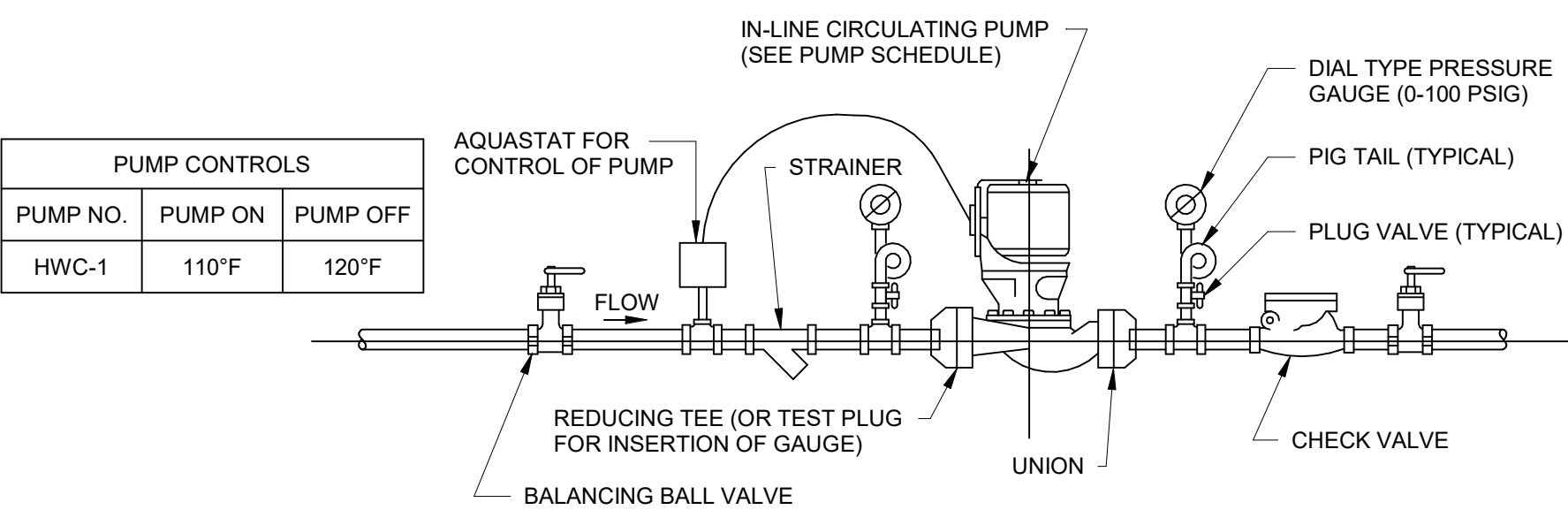
ACID RESISTANT COATED INTERIOR AND EXTERIOR FABRICATED STEEL LARGE CAPACITY, PDI RATE AT 50 GPM AND 100 LBS. GREASE CAPACITY, WITH INTERNAL AIR RELIEF BY-PASS, BRONZE CLEANOUT PLUG AND VISIBLE DOUBLE WALL TRAP SEAL WITH REMOVABLE PRESSURE EQUALIZING FLOW DIFFUSING INLET BAFFLE, FIXED BOTTOM OUTLET BAFFLE, AND VISIBLE DOUBLE WALL TRAP SEAL, GASKETED NON-SKID SECURED COVER WITH CENTER TIE DOWN ASSEMBLY, COMPLETE WITH EXTERNAL FLOW CONTROL FITTING. GREASE INTERCEPTOR SHALL BE BY ZURN OR EQUAL.



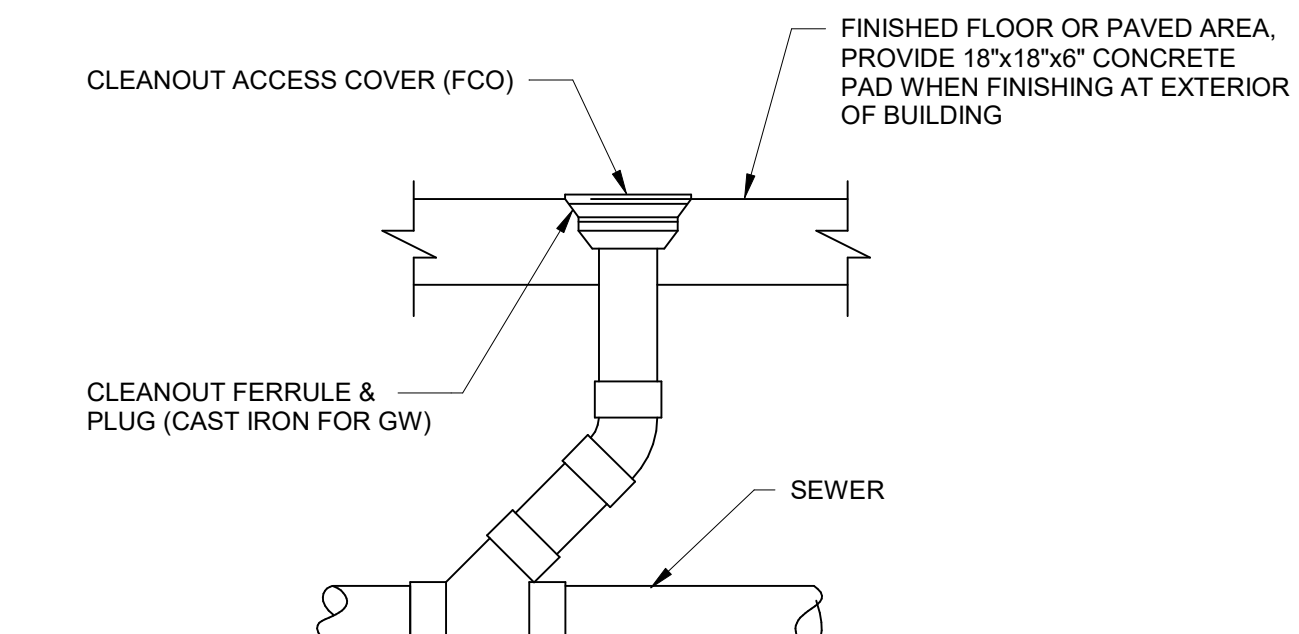
2-UNIT TANKLESS WATER HEATER SYSTEM DETAIL NOT TO SCALE



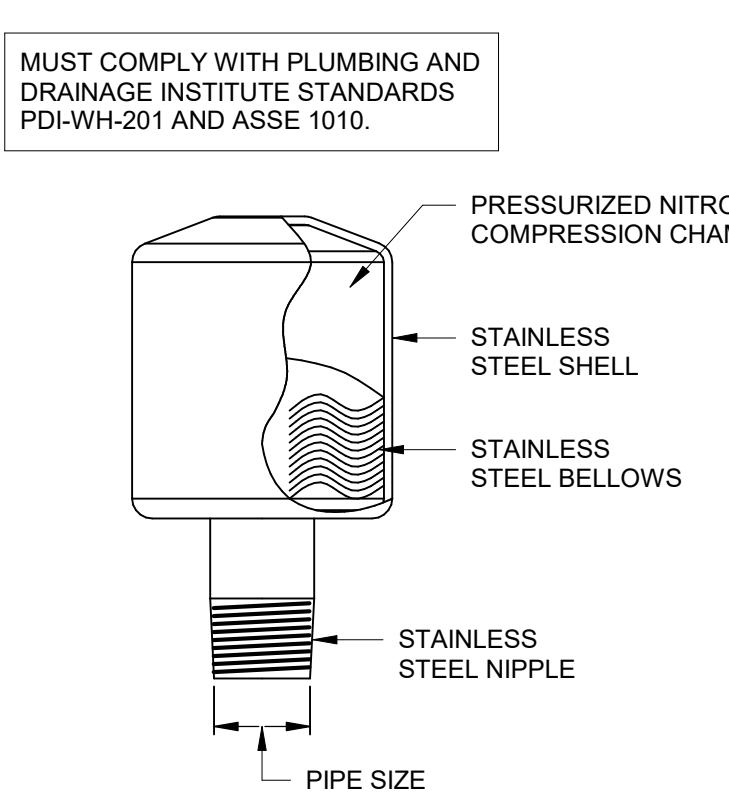
FLOOR SINK NOT TO SCALE



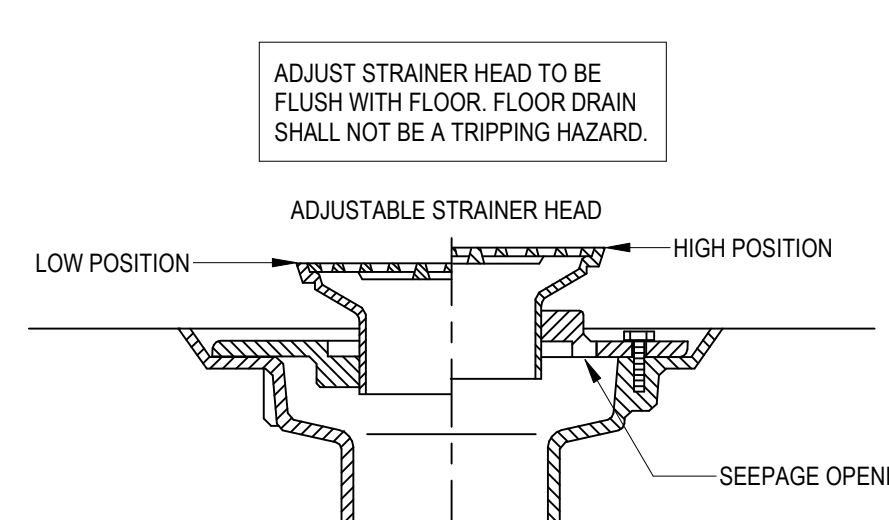
IN-LINE CIRCULATING PUMP DETAIL NOT TO SCALE



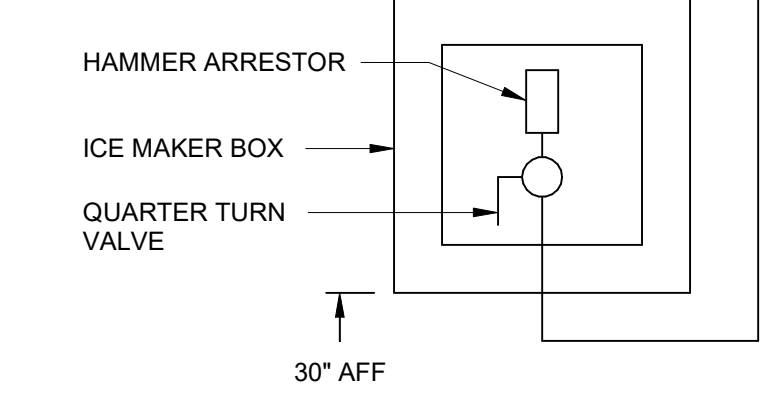
CLEANOUT DETAIL NOT TO SCALE



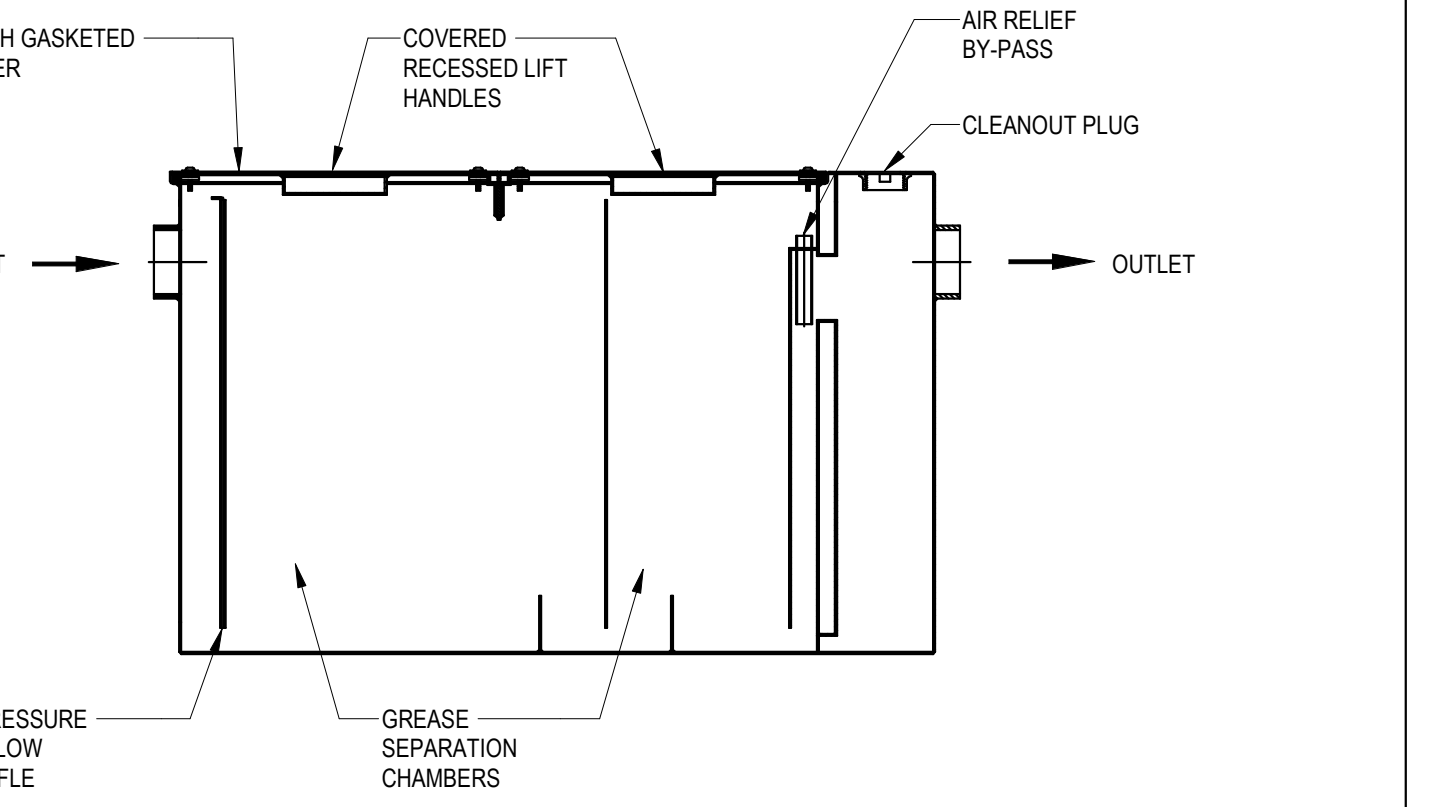
HAMMER ARRESTOR DETAIL NOT TO SCALE



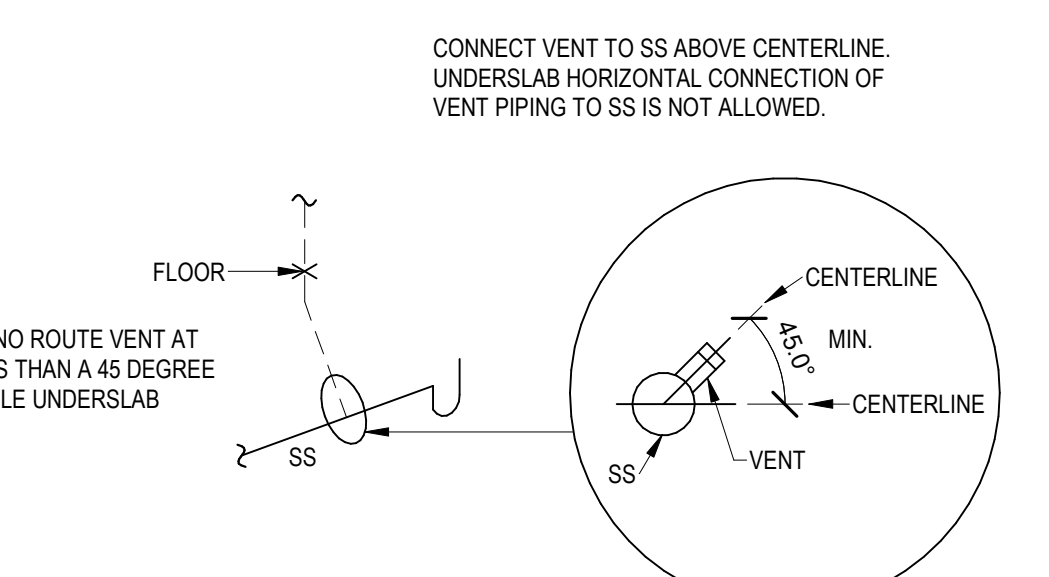
FLOOR DRAIN DETAIL NOT TO SCALE



ICE MAKER BOX DETAIL NOT TO SCALE



GREASE INTERCEPTOR DETAIL NOT TO SCALE



VENT INSTALLATION DETAIL NOT TO SCALE

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Revisions

No	Date	Description

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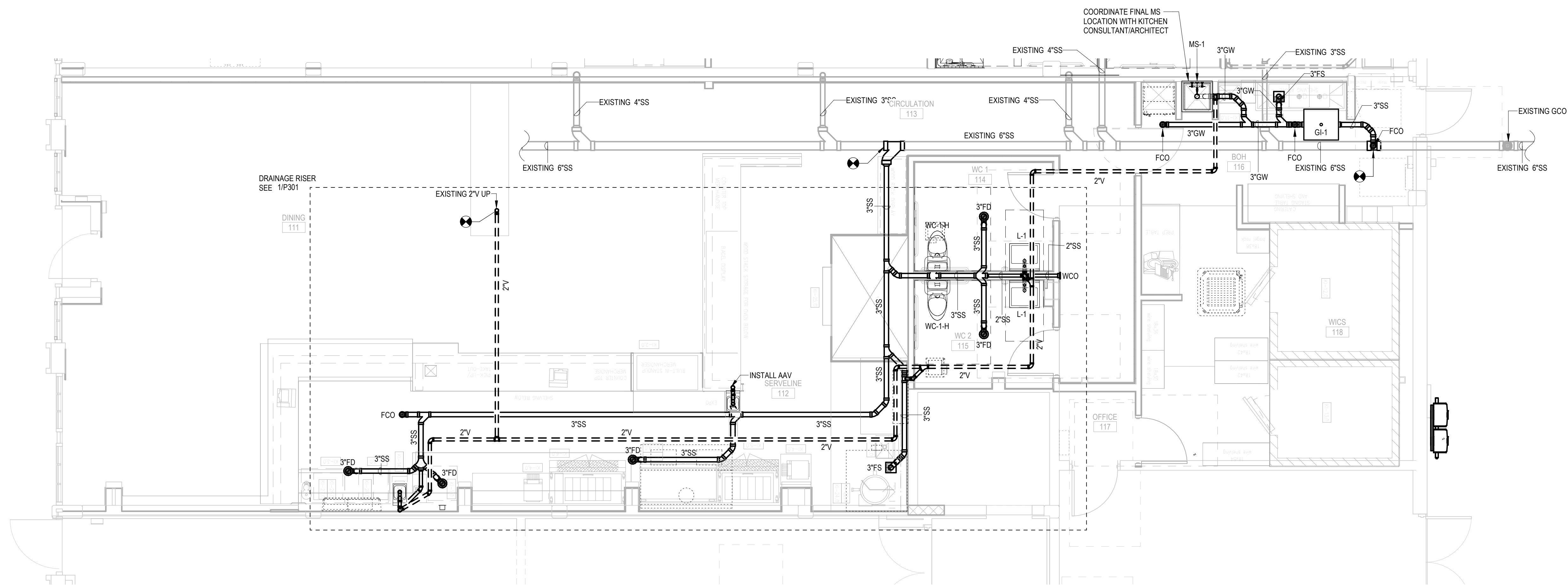
PLUMBING
SPECS &
DETAILS

Status 100%
 Date FEBRUARY 20TH, 2023
 Project No. 2228.00
 Drawing No.

P001



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PLUMBING SHEET NOTES

- A THIS PLAN IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE LOCATION OR DIMENSION OF THE WORK. CONTRACTOR SHALL VERIFY EXACT LOCATION OF PIPING AND PENETRATIONS.
- B CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THE LOCATION OF EXISTING BELOW GRADE WASTE PIPING AND REFLECT ANY DEVIATION GREATER THAN 1'-0" FROM THIS PLAN ON THE AS-BUILT DRAWINGS.
- C CUTTING, BORING, SAWCUTTING OR DRILLING THROUGH THE NEW AND EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED IN THE DRAWINGS OR ACCEPTED BY THE APPROVAL, THE CITY INSPECTOR.
- D REPAIR WALL SURFACE AFTER INSTALLATION AND INSPECTION OF EACH PLUMBING FIXTURE AND PIPING INSTALLED.
- E ALL WALL-MOUNTED ACCESS PANELS SHALL BE LOCKABLE TYPE.
- F ABOVE-GRADE WASTE PIPE SHALL BE RUN AT 2% GRADE. BELOW-GRADE WASTE PIPE SHALL BE RUN AT 1% GRADE.
- G ALL CONDENSATE DRAIN PIPE SHALL BE RUN AT 1% GRADE.
- H MAINTAIN MINIMUM 10'-0" SEPARATION BETWEEN FLUE AND PLUMBING VENT OUTLETS AND ANY FRESH AIR INTAKE. COORDINATE WITH HVAC CONTRACTOR.
- I FLOORS SHALL SLOPE TO DRAINS AT 1% MINIMUM SLOPE. SEE ARCHITECTURAL PLANS FOR MORE INFORMATION.
- J PROVIDE ALL FLOOR DRAINS, FLOOR SINKS, TRENCH DRAINS, ETC. WITH TRAP GUARD DEVICES (ASSE 1072 COMPLIANT).
- K PROVIDE WALL CLEAN OUTS IN ALL VENT RISERS ON BRANCHES LONGER THAN 5'-0" AND ON BRANCHES SERVING SINKS OR URINALS.



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WASTE & VENT PLAN

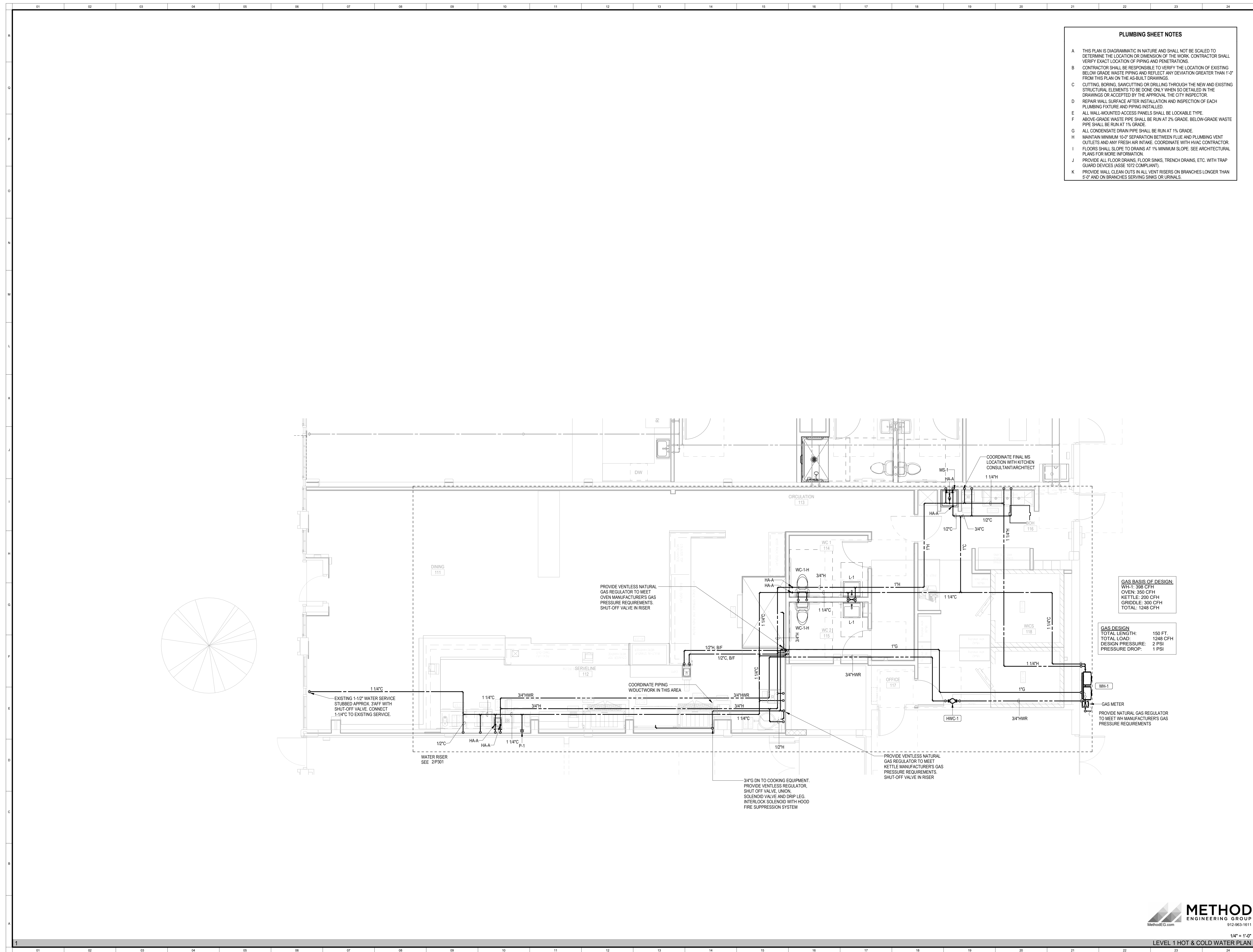
Status	100%
Date	FEBRUARY 20TH, 2023
Project No.	2228.00
Drawing No.	

P101



1/4" = 1'-0"
LEVEL 1 WASTE & VENT PLAN

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PLUMBING SHEET NOTES

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Revisions

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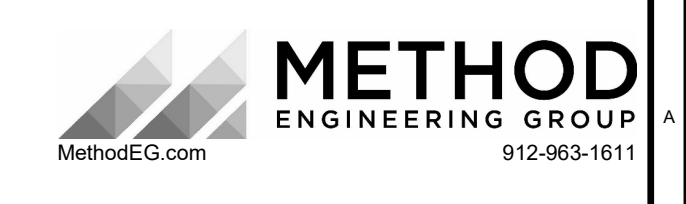
GAS BASIS OF DESIGN:
WH-1: 388 CFH
OVEN: 350 CFH
KETTLE: 200 CFH
GRIDDLE: 300 CFH
TOTAL: 1248 CFH

GAS DESIGN:
TOTAL LENGTH: 150 FT.
TOTAL LOAD: 1248 CFH
DESIGN PRESSURE: 2 PSI
PRESSURE DROP: 1 PSI



HOT & COLD WATER PLAN

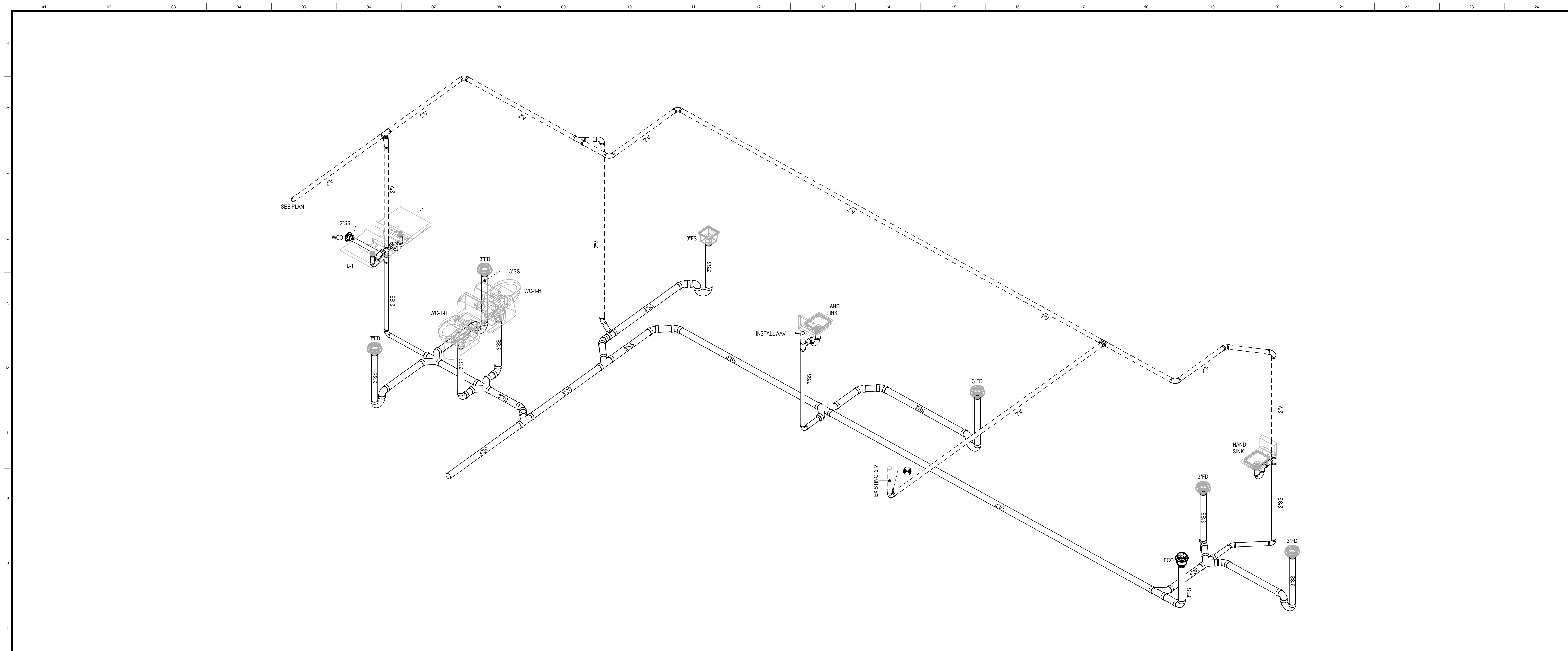
Status: 100%
Date: FEBRUARY 20TH, 2023
Project No.: 2228.00
Drawing No.:



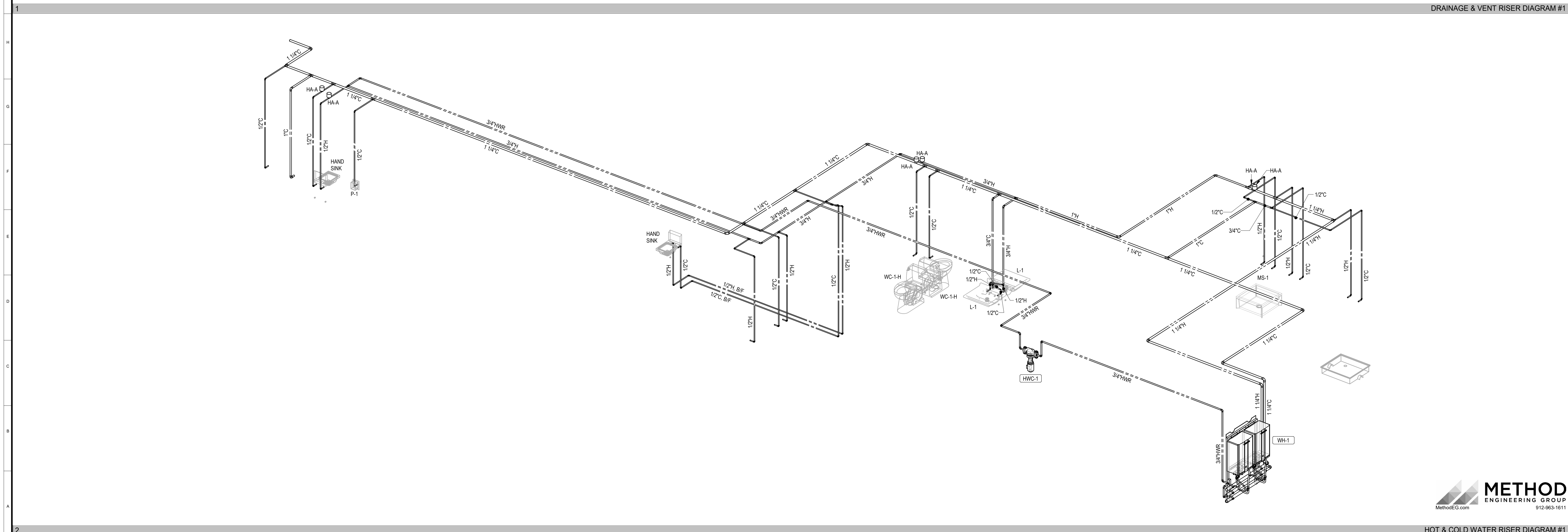
P201

LEVEL 1 HOT & COLD WATER PLAN
1/4" = 1'-0"

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DRAINAGE & VENT RISER DIAGRAM #1



HOT & COLD WATER RISER DIAGRAM #1



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Revisions

No	Date	Description

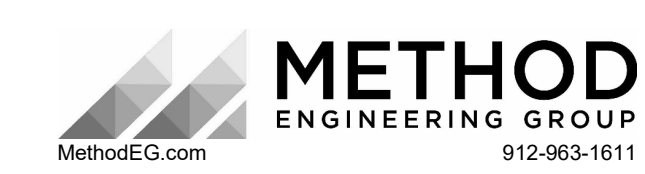
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PLUMBING RISER DIAGRAMS

Status	100%
Date	FEBRUARY 20TH, 2023
Project No.	2228.00
Drawing No.	

P301



3/10/2023 4:10:12 PM

GENERAL MECHANICAL SYMBOLS	
	REVISION NUMBER - SHOWN ON PLANS
	POINT WHERE NEW CONNECTS TO EXISTING
	NUMBER OF DETAIL ON SHEET
	NUMBER OF SHEET WHERE DETAIL APPEARS
	KEYNOTE
	CONTINUATION SYMBOL
	ROOM NAME AND NUMBER
	ITEM TO BE DEMOLISHED
	AREA NOT IN CONTRACT
	PIPE SIZE TAG (DIAMETER)
	ABOVE GROUND PIPING
	PIPE SLOPE TAG
	BELOW GROUND PIPING
	PIPE INVERT ELEVATION TAG
	EXISTING PIPE TAG
	PIPING BEING DEMOLISHED

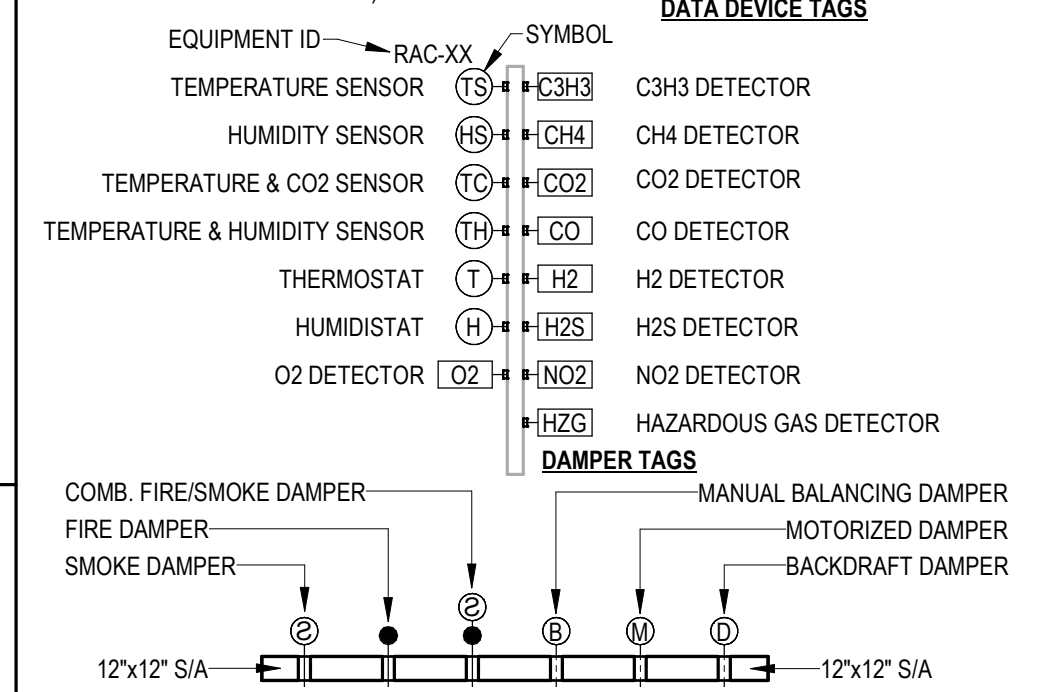
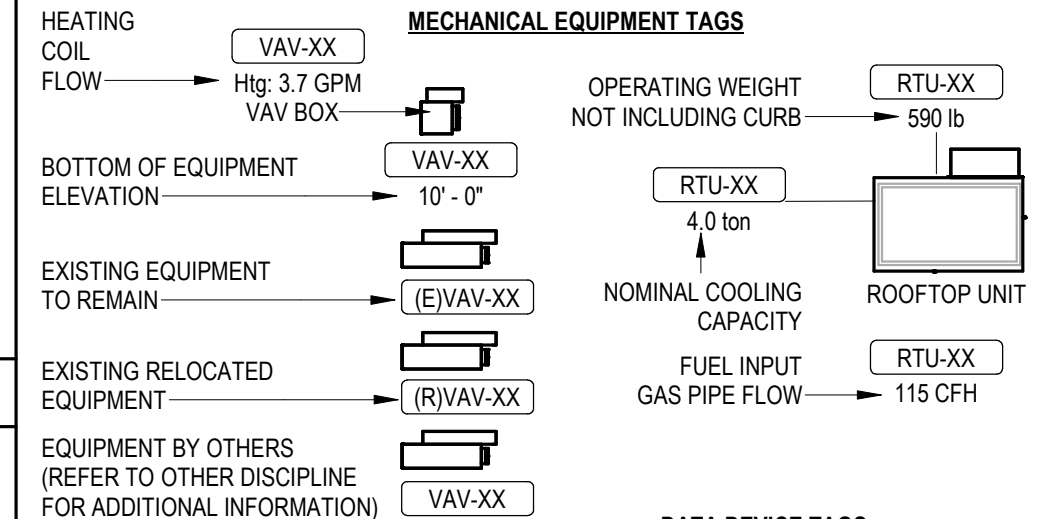
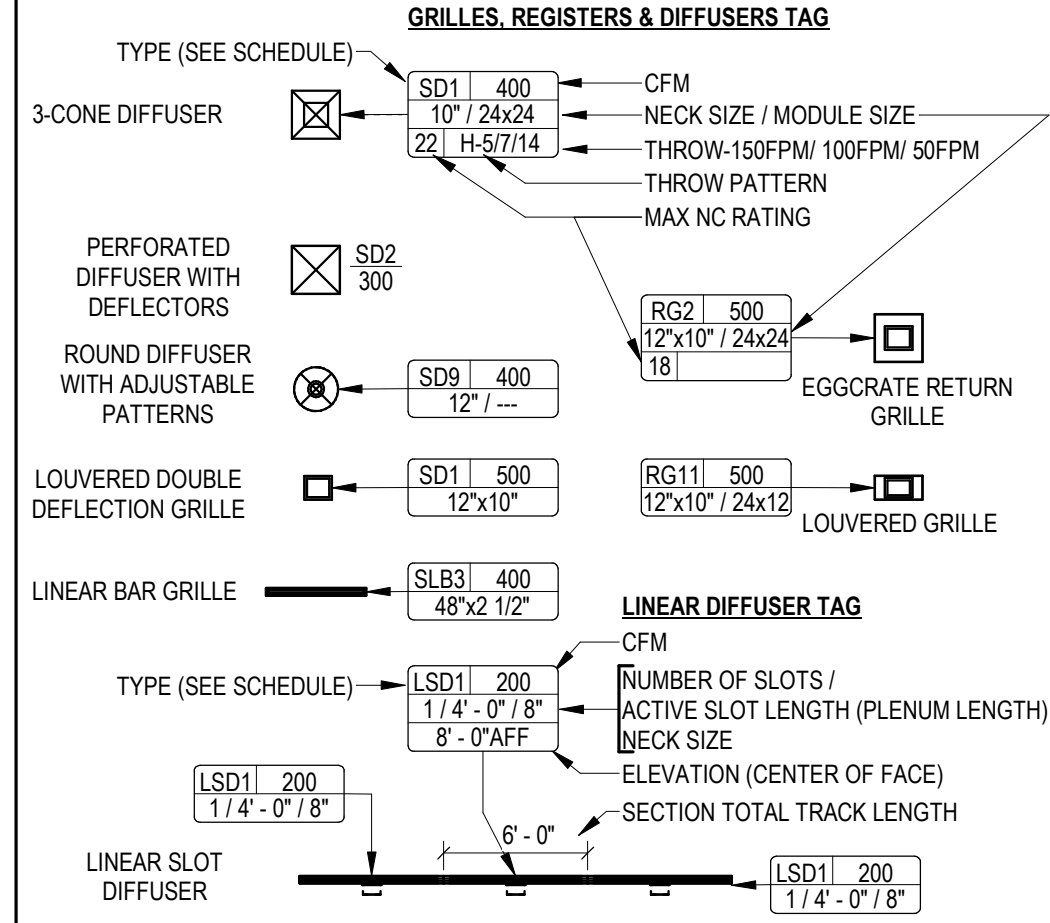
ABBREVIATIONS			
Ø	ROUND	LV	LOUVER
ABV	ABOVE	LWT	LEAVING WATER TEMPERATURE
AC	AIR CONDITIONING	MA	MIXED AIR
AD	AREA DRAIN	MAX	MAXIMUM
ADD	ADDENDUM	MBH	ONE THOUSAND BTU PER HOUR
AFF	ABOVE FINISHED FLOOR	MCF	ONE THOUSAND CUBIC FEET
AFUE	ANNUAL FUEL UTILIZATION EFFICIENCY	MD	MOTORIZED DAMPER
ALT	ALTERNATE	MECH	MECHANICAL
AP	ACCESS PANEL	MFR	MANUFACTURER
ARCH	ARCHITECT/ARCHITECTURAL	MIN	MINIMUM
BFF	BELOW FINISHED FLOOR	MISC	MISCELLANEOUS
BLW	BELOW	MTR	MOTOR
BTU	BRITISH THERMAL UNITS	MUA	MAKE-UP AIR
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA
CAP	CAPACITY	NC	NORMALLY CLOSED
CB	CATCH BASIN	NIC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NO	NUMBER
CLG	CEILING	NO	NORMALLY OPEN
CO	CLEAN OUT	NTS	NOT TO SCALE
CO	COLD WATER	O	OXYGEN
D	DEGREE	O/A	OUTSIDE AIR
DB	DRY BULB	ORD	OVERFLOW ROOF DRAIN
DIA	DIAMETER	PD	PRESSURE DROP
DN	DOWN	PV	POST INDICATOR VALVE
DW	DISTILLED WATER	PLBG	PLUMBING
EA	EACH	PRSS	PRESSURE
EAT	ENTERING AIR TEMPERATURE	PRV	PRESSURE REDUCING VALVE
ELEC	ELECTRICAL	PSI	POUNDS PER SQUARE INCH
EQUIP	EQUIPMENT	PSIG	POUNDS PER SQUARE INCH GAUGE
EWC	ELECTRIC WATER COOLER	PWR	POWER
EWT	ENTERING WATER TEMPERATURE	R	DUCT RISER
EA	EXHAUST AIR	RIA	RETURN AIR
EXIST	EXISTING	RCP	RADIANT CEILING PANEL
F	DEGREES FAHRENHEIT	RD	ROOF DRAIN
FCO	FLOOR CLEAN OUT	REC	RECESSED
FD	FLOOR DRAIN	RED	REDUCER
FDC	FIRE DEPARTMENT CONNECTION	RH	RELATIVE HUMIDITY
FL	FLOOR	RIA	RELIEF AIR
FO	FUEL OIL	RM	ROOM
FOV	FUEL OIL VENT	RPM	REVOLUTIONS PER MINUTE
FOR	FUEL OIL RETURN	RW	RAIN WATER
FOS	FUEL OIL SUPPLY	SF	SQUARE FOOT
FS	FEET PER MINUTE	SIA	SUPPLY AIR
FS	FLOOR SINK	SAN	SANITARY
FT	FOOT/FEET	SF	SQUARE FOOT
FTR	FIN TUBE RADIATION	SD	SMOKE DAMPER
GAL	GALLON	SM	SURFACE MOUNT
GF	GAS-FIRED	ST	STAIRWELL
GC	GENERAL CONTRACTOR	SP	STATIC PRESSURE
GPM	GALLONS PER MINUTE	STM	STEAM
GW	GREASE WASTE	T	THERMOSTAT
HB	HOSE BIB	TD	TEMPERATURE DROP
HP	HORSE POWER	TDR	TRENCH DRAIN
HTG	HEATING	TEMP	TEMPERATURE
HTR	HEATER	TYP	TYPICAL
HW	HOT WATER	UG	UNDERGROUND
HYD	HYDRANT	VAC	VACUUM
ID	INDIRECT	V	VENT
IN	INCH	VAV	VARIABLE AIR VOLUME
INV	INVERT	VENT	VENTILATION
LB	POUND	VTR	VENT THROUGH ROOF
LBHR	POUNDS PER HOUR	W	WASTE
LAT	LEAVING AIR TEMPERATURE	WB	WET BULB
LP	LOW PRESSURE	WC	WALL CLEAN OUT
LPG	LIQUEFIED PETROLEUM GAS	WH	WALL HYDRANT

EQUIPMENT ABBREVIATIONS			
AC	AIR CONDITIONER	FCU	FAN COIL UNIT
AH	AIR HANDLER	FF	FLY FAN
AHU	AIR HANDLING UNIT	GRV	GRAVITY ROOF VENTILATOR
AS	AIR SEPARATOR	HP	HEAT PUMP
B	BOILER	HWP	HEATING WATER PUMP
CH	CHILLER	HRC	HEAT RECOVERY CONTROLLER
CT	COOLING TOWER	KEF	KITCHEN EXHAUST FAN
CUH	CABINET UNIT HEATER	MAU	MAKEUP AIR UNIT
CWHP	CHILLED WATER PUMP	RAC	ROOFTOP AIR CONDITIONER
DH	DUCTLESS AIR HANDLER	RHP	ROOFTOP HEAT PUMP
DHP	DUCTLESS HEAT PUMP	SF	SUPPLY FAN
DOAS	DEDICATED OUTDOOR AIR SYSTEM	TF	TRANSFER FAN
EH	EXHAUST FAN	UH	UNIT HEATER
EV	ELECTRIC HEATER	VAF	VRF AIR HANDLER
ERH	ENERGY RECOVERY VENTILATOR	VHP	VRF HEAT PUMP
ET	EXPANSION TANK	VRF	VARIABLE REFRIGERANT FLOW

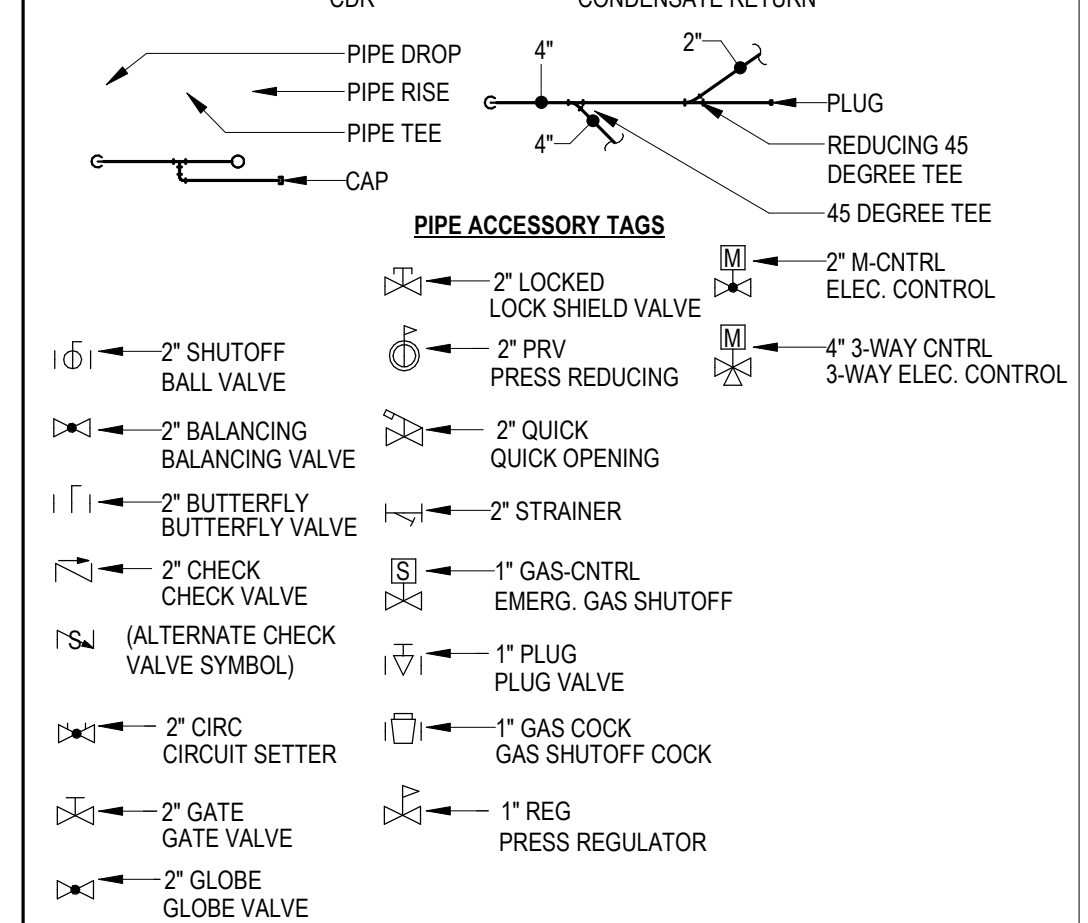
NOTE
ALL OF GENERAL NOTES ON THIS SHEET ARE TO BE APPLIED TO ALL OTHER DRAWINGS IN THIS SET. THE SYMBOLS AND ABBREVIATIONS SHOWN ON THIS SHEET MAY OR MAY NOT BE USED IN THIS SET OF DRAWINGS.

HVAC SYMBOLS	
	SQUARE DUCT SIZE TAG (WIDTH x HEIGHT)
	OVAL DUCT SIZE TAG (WIDTH / HEIGHT)
	ROUND DUCT SIZE TAG (DIAMETER)
	EXISTING DUCT TAG
	DUCT BEING DEMOLISHED
	DOUBLE WALL SPIRAL DUCT
	LINED DUCT
	EXTERIOR DUCT
	FABRIC DUCT
	SUPPLY AIR
	CONDITIONED OUTSIDE AIR
	OUTSIDE AIR
	RETURN AIR
	TRANSFER AIR
	EXHAUST AIR
	RELIEF AIR
	GREASE EXHAUST AIR
	COMBUSTION AIR

GRILLES, REGISTERS & DIFFUSERS TAG	
	3 CONE DIFFUSER
	PERFORATED DIFFUSER WITH DEFLECTORS
	ROUND DIFFUSER WITH ADJUSTABLE PATTERNS
	LOUVERED GRILLE
	LINEAR BAR GRILLE
	LINEAR SLOT DIFFUSER



PIPING SYMBOLS	
	CHILLED WATER RETURN
	CHILLED WATER SUPPLY
	CONDENSATE DRAINAGE
	CONDENSATE WATER RETURN
	CONDENSER WATER SUPPLY
	GEOTHERMAL WATER RETURN
	GEOTHERMAL WATER SUPPLY
	HEATING WATER RETURN
	HEATING WATER SUPPLY
	NATURAL GAS
	PROPANE GAS
	REFRIGERANT LIQUID
	REFRIGERANT SUCTION
	REFRIGERANT HOT GAS
	STEAM
	CONDENSATE RETURN



- ### PROJECT GENERAL NOTES
- COORDINATE INSTALLATION OF PIPING, DUCTWORK, CONDUIT, LIGHTS, CABLE TRAY, STRUCTURE, AND EQUIPMENT TO PREVENT CONFLICTS.
 - FINAL PRODUCT SHALL BE A COMPLETE AND FUNCTIONING SYSTEM AND SHALL CONFORM TO ALL REQUIREMENTS OF APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING BUT NOT LIMITED TO THE INTERNATIONAL BUILDING CODE AND INTERNATIONAL MECHANICAL CODE.
 - LOCATE DUCTWORK, PIPING AND MECHANICAL EQUIPMENT AWAY FROM THE SPACE ABOVE ELECTRICAL PANELS, TRANSFORMERS AND OTHER ELECTRICAL EQUIPMENT.
 - PROVIDE SLEEVES AND/OR OPENINGS TO RUN PIPES AND DUCTS THROUGH FOUNDATIONS, FLOORS, WALLS, AND ROOF.
 - MAINTAIN CLEAR ACCESS TO SERVICE EQUIPMENT AND OTHER ACCESSORIES REQUIRING SERVICE, VISUAL INSPECTION OR HAND OPERATION, WHERE INDICATED OR REQUIRED. PROVIDE ACCESS PANELS OF THE TYPE SELECTED TO SUIT MATERIALS IN WHICH INSTALLED.
 - ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT. REFER TO HVAC SERIES DRAWINGS FOR GAS AND A.C. CONDENSATE DRAIN PIPING.
 - PIPE SIZES SHOWN SHALL BE CONTINUED IN THE DIRECTION OF FLOW UNTIL ANOTHER SIZE IS SHOWN.
 - FOR DETAILS, EQUIPMENT CONNECTIONS, AND PIPE SIZES NOT SHOWN ON THE SEGMENTS, REFER TO DETAILS, SCHEDULES, AND SPECIFICATIONS.
 - INSTALL ALL EQUIPMENT IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS, AT A LEVEL OF QUALITY AND WORKMANSHIP CONSISTENT WITH THE SPECIFICATIONS.
 - ADJUST PIPING AND DUCTWORK SIZES TO PROPERLY CONNECT TO MECHANICAL EQUIPMENT.
 - INSTALL EXPOSED PIPING AND DUCTWORK AS HIGH AS PRACTICAL IN ROOMS WITHOUT CEILINGS.
 - THE CONTRACTOR'S WORK SCHEDULE SHALL BE SUBMITTED TO AND APPROVED BY THE OWNER.
 - PRIOR TO STARTING WORK, SUBMIT SHOP DRAWINGS FOR ALL MECHANICAL EQUIPMENT, PLUMBING FIXTURES, AND DIFFUSERS.
 - CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND SHALL ARRANGE FOR ALL INSPECTIONS AS REQUIRED.
 - PROVIDE ONE YEAR WARRANTY FOR ALL WORKMANSHIP AND MATERIALS AFTER THE DATE OF FINAL ACCEPTANCE.
 - LOCATE EQUIPMENT REQUIRING ACCESS 2'-0" MAXIMUM ABOVE CEILING.
 - ALL ROOF MOUNTED EQUIPMENT SHALL BE A MINIMUM 10'-0" FROM EDGE OF ROOF.
 - PENETRATIONS OF RATED ASSEMBLIES SHALL BE FIRE STOPPED. FIRE STOPPING SHALL BE AN APPROVED MATERIAL AS PRESCRIBED IN CSPM STANDARD 4.3.1 AND SHALL BE U.L. LISTED.
 - REMOVE ALL UNUSED PIPING, DUCTWORK AND ACCESSORIES.
 - THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING, PRIOR TO FINAL BID, ALL EXISTING CONDITIONS FOR PLUMBING AND MECHANICAL SYSTEMS WITHIN TENANT SPACE AND WITHIN CLOSE PROXIMITY OF TENANT SPACE.
 - THE MECHANICAL CONTRACTOR SHALL PERFORM SERVICE AND REPAIR ON THE EXISTING EQUIPMENT AND ITS ACCESSORIES AS FOLLOWS: CLEAN ALL COILS, REPLACE THE FILTERS AND BELTS, INSPECT, REPAIR, OR REPLACE THE ECONOMIZERS, DRIVES AND FAN BEARINGS, MOTORS, CONTROL COMPONENTS, VALVES AND ANY OTHER ITEM NECESSARY FOR A COMPLETE AND PROPER OPERATING SYSTEM. THIS CONTRACTOR SHALL ALSO VISIT THE SITE PRIOR TO FINAL BIDDING, AND VERIFY ALL EXISTING SITE CONDITIONS. PROVIDE ALL MATERIAL AND COMPONENTS AS NEEDED TO BRING THE UNITS TO FULL COMPLIANCE OF THE LANDLORD'S CRITERIA AND LOCAL AUTHORITY HAVING JURISDICTION.
 - WHERE FLOOR DRAINS OCCUR WITHIN THE LIMITS OF CONSTRUCTION, PREVENT CONSTRUCTION DEBRIS FROM ENTERING DRAIN BODY BY SEALING DRAIN OPENING PRIOR TO START OF WORK. UNSAID DRAINS AT COMPLETION OF CONSTRUCTION.
 - THE CONTRACTOR SHALL BE FAMILIAR WITH ALL THE CONDITIONS BOTH EXISTING AND THOSE ILLUSTRATED BY THESE SEGMENTS AS WELL AS THOSE WHICH CAN BE REASONABLY ANTICIPATED INCLUDING, BUT NOT LIMITED TO ARCHITECTURAL, ELECTRICAL, VENTILATION, PLUMBING, AND OTHER SYSTEMS INVOLVED ON THIS PROJECT.

- ### HVAC GENERAL NOTES
- SUPPLY AND RETURN PIPING TO COILS ARE THE SAME SIZE.
 - CONTRACTOR SHALL LOCATE THERMOSTATS AND TEMPERATURE SENSORS AT 4'-0" AFF, A MINIMUM OF 8" FROM LIGHT SWITCH.
 - REFER TO HVAC DRAWINGS FOR THERMOSTAT AND TEMPERATURE SENSOR LOCATIONS.
 - CONDENSATE DRAINS SHALL BE SUPPLIED FOR ALL COOLING EQUIPMENT. CONTRACTOR SHALL ENSURE PROPER INSTALLATION AND DRAINAGE AS REQUIRED BY FEDERAL, STATE, AND LOCAL CODES. CONDENSATE PIPING SHALL BE SCH 40.
 - ALL SUPPLY, RETURN, AND EXHAUST DUCTWORK SHALL BE RATED FOR PRESSURE CLASS OF 2" W.G. UNLESS NOTED OTHERWISE.
 - COORDINATE THE EXACT LOCATION OF ALL CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH NEW AND EXISTING LIGHTING.
 - PROVIDE DIFFUSERS AND REGISTERS WITH 4-WAY BLOW PATTERN UNLESS OTHERWISE NOTED.
 - PROVIDE A 4" HOUSEKEEPING PAD FOR EACH PIECE OF MECHANICAL EQUIPMENT. COORDINATE SIZES WITH MECHANICAL EQUIPMENT SELECTED. THIS CONTRACTOR SHALL BE REQUIRED TO REPLACE FILTERS ON HVAC EQUIPMENT AFTER ALL DUST PRODUCING CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO THE FINAL PUNCH.
 - INSTALL, SUPPORT, AND BRACE ALL HVAC DUCTWORK AND ACCESSORIES PER "HVAC DUCT CONSTRUCTION STANDARDS" BY SMACNA, ANSISMACNA 008-2008 AND LOCAL SEISMIC AND WIND REQUIREMENTS.

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Revisions

No	Date	Description

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Andrew Wilton
02/10/23
PROJECT MANAGER

HVAC TITLE SHEET

Status 100%
Date FEBRUARY 20TH, 2023
Project No. 2228.00
Drawing No.

M000



MECHANICAL SPECIFICATIONS

GENERAL PROVISIONS

IMPOSED REGULATIONS: APPLICABLE PROVISIONS OF THE STATE AND LOCAL CODES AND OF THE FOLLOWING CODES AND STANDARDS, IN ADDITION TO THOSE LISTED ELSEWHERE IN THE SPECIFICATIONS, ARE HEREBY IMPOSED ON A GENERAL BASIS FOR MECHANICAL WORK:

- INTERNATIONAL MECHANICAL CODE - 2018 EDITION
INTERNATIONAL ENERGY CONSERVATION CODE - 2015 EDITION
INTERNATIONAL FUEL GAS CODE - 2018 EDITION

SCOPE OF WORK: PROVIDE ALL LABOR, MATERIALS, EQUIPMENT AND SUPERVISION TO CONSTRUCT COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS AND SPECIFIED HEREIN. ALL MATERIALS AND EQUIPMENT USED SHALL BE NEW, UNDAMAGED AND FREE FROM ANY DEFECTS.

PRODUCT WARRANTIES: PROVIDE MANUFACTURER'S STANDARD PRINTED COMMITMENT IN REFERENCE TO A SPECIFIC PRODUCT AND NORMAL APPLICATION, STATING THAT CERTAIN ACTS OF RESTITUTION WILL BE PERFORMED FOR THE PURCHASER OR OWNER BY THE MANUFACTURER, WHEN AND IF THE PRODUCT FAILS WITHIN CERTAIN OPERATIONAL CONDITIONS AND TIME LIMITS. WHERE THE WARRANTY REQUIREMENTS OF A SPECIFIC SPECIFICATION SECTION EXCEEDS THE MANUFACTURER'S STANDARD WARRANTY, THE MORE STRINGENT REQUIREMENTS WILL APPLY AND MODIFIED MANUFACTURER'S WARRANTY SHALL BE PROVIDED. IN NO CASE SHALL THE MANUFACTURER'S WARRANTY BE LESS THAN ONE (1) YEAR.

ELECTRICAL WORK: COORDINATE THE MECHANICAL WORK WITH ELECTRICAL WORK, AND PROPERLY INTERFACE WITH THE ELECTRICAL SERVICE. IN GENERAL, AND EXCEPT AS OTHERWISE INDICATED, INSTALL MECHANICAL EQUIPMENT READY FOR ELECTRICAL CONNECTION. REFER TO ELECTRICAL SECTIONS OF THE SPECIFICATIONS FOR ELECTRICAL CONNECTION OF MECHANICAL EQUIPMENT.

THE PLANS SHOW THE GENERAL ARRANGEMENT AND LOCATIONS OF MECHANICAL WORK. THE CONTRACTOR SHALL COORDINATE THE MECHANICAL INSTALLATION WITH THE STRUCTURE AND ALL OTHER TRADES. PERFORM ALL WORK IN ACCORDANCE WITH CURRENT STATE AND LOCAL CODES. SUBMIT PDF FILES OF MANUFACTURER'S DATA PRIOR TO EQUIPMENT PURCHASES.

COORDINATE THE ACTUAL LOCATION OF ALL MECHANICAL WORK VISIBLE IN FINISHED SPACES WITH THE ARCHITECT. THIS INCLUDES AIR DISTRIBUTION DEVICES, EXPOSED DUCTWORK, THERMOSTATS, HUMIDISTATS, SWITCHES, SENSORS, ETC. ALL THERMOSTATS AND WALL-MOUNTED SENSORS SHALL BE INSTALLED A MAXIMUM OF 48" AFF.

THE CONTRACTOR SHALL FURNISH DETAILED SHOP DRAWINGS OF ALL FIRESTOPPING DETAILS TO BE USED FOR BOTH PIPING AND DUCTWORK. ALL FIRESTOPPING DETAILS SHALL BE U.L. LISTED AND SUBJECT TO APPROVAL BY THE AUTHORITY HAVING JURISDICTION.

WIND ANCHORAGE REQUIREMENTS SHALL BE SUBMITTED FOR ALL CURB MOUNTED EQUIPMENT AND ROOF MOUNTED EQUIPMENT. FASTENERS SHALL BE SELECTED AND DETAILED ON A PROJECT-SPECIFIC BASIS BY A REGISTERED DESIGN PROFESSIONAL. PROVIDE CALCULATIONS FOR UNIT CONNECTIONS TO SUPPORT CURB, AND FOR SUPPORT CURB TO STRUCTURE. THE DESIGN WIND SPEED IS 148 MPH.

PROVIDE A TEST AND BALANCE REPORT BY A NEBB CERTIFIED TAB FIRM.

SUBMIT O&M MANUAL AND EQUIPMENT WARRANTIES UPON COMPLETION OF WORK.

MECHANICAL IDENTIFICATION MATERIALS

ENGRAVED PLASTIC-LAMINATE LABELS: PROVIDE ENGRAVING STOCK MELAMINE PLASTIC LABELS FOR PERMANENT MOUNTING ON MECHANICAL EQUIPMENT. INDICATE UNIT NAME, NUMBER, AND ELECTRICAL PANEL SERVING THE EQUIPMENT.

PIPING

PROVIDE PIPING, FITTINGS, HANGERS, AND SUPPORTS AS REQUIRED, AS INDICATED ON DESIGN DOCUMENTS, AND AS FOLLOWS:

REFRIGERANT PIPING: REFRIGERANT PIPING SHALL BE SEAMLESS COPPER SUITABLE FOR A WORKING PRESSURE OF 300 PSIG. FITTINGS SHALL BE WROUGHT COPPER OR BRASS SUITABLE FOR USE WITH HIGH TEMPERATURE SOLDER AND DESIGNED FOR 300 PSIG WORKING PRESSURE. REFRIGERANT PIPING INSULATION SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER, WITH MINIMUM THICKNESSES AS REQUIRED BY IECC TABLE 403.2.10. PIPE INSULATION EXPOSED OUTDOORS SHALL BE COVERED WITH ALUMINUM METAL JACKETS. SUSPEND REFRIGERANT PIPING ON COPPER CLEVIS HANGERS WITH INSULATION SHIELDS. TRAPEZE-MOUNTED PIPING SHALL USE METAL STRUT CLAMPS THAT PROVIDE A CONTINUOUS INSULATION BARRIER AND/OR CLUSHA-CLAMP OR EQUAL. PLASTIC STRUT CLAMPS ARE NOT ACCEPTABLE.

HVAC DRAIN PIPING: HVAC DRAIN LINES SHALL BE SCHEDULE 40 PVC WITH SOCKET TYPE FITTINGS AND SOLVENT CEMENT. INDOOR HVAC DRAIN LINES INDOORS SHALL HAVE 1" FIBERGLASS PIPE INSULATION WITH VAPOR BARRIER. SUSPEND INDOOR HVAC DRAIN PIPING ON CLEVIS HANGERS WITH INSULATION SHIELDS. SUPPORT OUTDOOR HVAC DRAIN PIPING ON NON-PENETRATING PIPE PEDESTALS. LOCATE EQUIPMENT AND ASSOCIATED DUCTWORK AND PIPING TO PROVIDE MANUFACTURER'S RECOMMENDED SERVICE CLEARANCES. PVC HVAC DRAIN LINES OUTDOORS SHALL RECEIVE 2 COATS OF WHITE LATEX PAINT TO PREVENT UV DEGRADATION.

DUCTWORK AND ACCESSORIES

DUCTWORK SHOWN ON THE PLANS IS SIZED AND ROUTED BASED ON INFORMATION AVAILABLE DURING THE DESIGN PHASE FOR CEILING HEIGHTS, STRUCTURAL MEMBERS, ETC. ALL DUCT SIZES AND ROUTINGS MUST BE CONFIRMED IN THE FIELD BY THE CONTRACTOR PRIOR TO FABRICATION AND INSTALLATION. WHERE CONFLICTS ARISE, REFER TO THE ENGINEER.

SUPPLY AIR DUCTS AND RETURN AIR DUCTS SHALL BE G90 GALVANIZED STEEL AND INSULATED WITH 2" THICK R-6.7 FIBERGLASS DUCT WRAP WITH VAPOR BARRIER, WHERE INDICATED ON PLANS. DUCTWORK SHALL ALSO BE LINED WITH 1" FIBERGLASS DUCT LINER FOR NOISE REDUCTION, BASIS OF DESIGN JOHNS MANVILLE LINACOUSTIC. EXTERIOR DUCTWORK SHALL BE INSULATED WITH 1.5" THICK POLYISOCYANURATE FOAM BOARD WITH MINIMUM R-8.0 VALUE, BASIS OF DESIGN JOHNS MANVILLE XSPRECT SOFCAM AFF BOARD. ALL EXTERIOR DUCTWORK SHALL BE JACKETED WITH .016" ALUMINUM FOR WEATHERPROOFING, OR ALTERNATIVELY WITH ALUMAGUARD ALL WEATHER FLEXIBLE JACKET. PROVIDE FLEXIBLE CONNECTIONS AT ALL UNIT SUPPLY AIR AND RETURN AIR TRUNK DUCTS. ALL DUCTS SHALL BE FABRICATED AND INSTALLED PER SMACNA STANDARDS FOR 2" STATIC PRESSURE RATING.

FIRE DAMPERS (WALLS AND FLOORS): PROVIDE CURTAIN TYPE, HINGED BLADE, VERTICAL AND/OR HORIZONTAL MOUNTING FIRE DAMPERS, SUITABLE FOR DUCT PENETRATION OR OPENING PROTECTION AS REQUIRED ON THE DRAWINGS. STYLE 'A' DAMPERS SHALL BE USED AT WALL REGISTER/GRILLE LOCATIONS. STYLE 'B' DAMPERS SHALL BE USED AT DUCT PENETRATIONS. DAMPERS SHALL MEET THE REQUIREMENTS OF NFPA 90A AND UL 555. FRAME SHALL BE MINIMUM 20 GAUGE GALVANIZED STEEL WITH 165 DEGREE F FUSIBLE LINK. BLADES SHALL BE MINIMUM 24 GAUGE GALVANIZED STEEL. DAMPERS SHALL BE AS MANUFACTURED BY AIR BALANCE, GREENHECK, NAILOR, NATIONAL CONTROLLED AIR, PHILLIPS-AIRE, PREFCO, RUSKIN, SAFE-AIR AND UNITED.

HVAC DUCT SMOKE DETECTORS SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. ALL DUCT SMOKE DETECTORS MUST BE COMPATIBLE WITH THE FIRE ALARM SYSTEM AND MUST BE CONNECTED TO THE FIRE ALARM SYSTEM FOR NOTIFICATION. ALL FIRE ALARM WIRING AND ASSOCIATED DEVICES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. EACH SMOKE DETECTOR SHALL BE WIRED BY MECHANICAL CONTRACTOR INTO THE RESPECTIVE FAN CONTROL CIRCUIT TO AUTOMATICALLY SHUT DOWN THE FAN UPON SENSING PRODUCTS OF COMBUSTION.

AIR DISTRIBUTION DEVICES

AIR DISTRIBUTION DEVICES SHALL BE ALUMINUM BY TITUS, KRUEGER, METALAIRE OR PRICE AND SHALL BE SUBMITTED FOR APPROVAL BEFORE ORDERING. ARCHITECT SHALL APPROVE COLOR AND FINISH OF ALL AIR DISTRIBUTION DEVICES. ALL DEVICES SHALL BE SELECTED FOR NC-20 MAXIMUM NOISE CRITERIA.

AUTOMATIC BALANCING DAMPERS (ABD)

AUTOMATIC BALANCING DAMPERS SHALL BE SUPPLIED FOR LOW AIRFLOW DIFFUSERS WHERE INDICATED ON PLANS. DEVICES SHALL BE CAPABLE OF ADJUSTING AIRFLOW WITH ADJUSTABLE COLLAR IN PLENUM BOX BEHIND DIFFUSER. PROVIDE ABD FROM GREENHECK, RUSKIN, OR EQUAL SUBJECT TO APPROVAL.

FANS

EXHAUST FANS SHALL BE BY GREENHECK, COOK OR PENN. PROVIDE DISCONNECT SWITCH, ROOF CURB, AND BACKDRAFT DAMPER. ALL CURB MOUNTED EQUIPMENT SHALL BE INSTALLED TO MEET SPECIFIED WIND RATING.

AIR TREATMENT SYSTEMS

ALL AIR HANDLERS AND ROOFTOP UNITS SHALL BE EQUIPPED WITH BIPOLAR IONIZATION AIR TREATMENT DEVICES INSTALLED AT THE SUPPLY FAN INLET. AIR TREATMENT DEVICES SHALL BE BY GLOBAL PLASMA SOLUTIONS, PLASMA AIR OR BIOCLIMATIC. DEVICES SHALL BE 24 VAC AND BE CONNECTED TO THE EQUIPMENT CONTROL CIRCUIT.

HEAT PUMPS

SPLIT SYSTEM HEAT PUMPS SHALL BE BY CARRIER, TRANE OR DAIKIN. REFER TO THE EQUIPMENT SCHEDULE FOR CAPACITIES. PROVIDE PROGRAMMABLE THERMOSTATS, BUILT-IN ELECTRIC HEATER, AND SINGLE POINT POWER SUPPLY. PROVIDE 4-YEAR EXTENDED WARRANTY ON COMPRESSOR PARTS. PROVIDE CONTROLS AND ALL ACCESSORIES NEEDED FOR COMPLETE, OPERABLE SYSTEMS.

OUTDOOR HP UNITS ON GRADE SHALL BE MOUNTED TO 4" THICK REINFORCED HOUSEKEEPING PADS. HP UNITS ON ROOF'S SHALL BE ANCHORED TO WELDED ALUMINUM EQUIPMENT STANDS. BASIS OF DESIGN PRECISION ALUMINUM PRODUCTS. PROVIDE 1" THICK NEOPRENE VIBRATION ISOLATION PADS FOR ALL OUTDOOR HP UNITS. REFRIGERANT LINE ROOF PENETRATIONS SHALL BE MADE THROUGH PREFABRICATED PIPE PORTALS. EXTEND COPPER REFRIGERANT LINES FROM OUTDOOR UNITS TO INDOOR UNITS.

INDOOR AH UNITS LOCATED ABOVE THE CEILING SHALL BE SUSPENDED ON THREADED HANGER RODS HVAC WITH VIBRATION ISOLATORS. FLOOR MOUNTED INDOOR UNITS SHALL BE MOUNTED ON WELDED EQUIPMENT STANDS WITH NEOPRENE PAD ISOLATION. SUSPEND A 3" DEEP WATERTIGHT EMERGENCY DRAIN PAN BENEATH EACH UNIT. DRAIN PANS SHALL BE SLIGHTLY SLOPED TO DRAIN WITH 1" EMERGENCY DRAIN LINES. PRIMARY DRAINS SHALL BE FULL SIZE WITH A HVAC DRAIN TRAP. SECONDARY HVAC DRAIN OPENINGS SHALL BE PLOUGED. ALL AIR HANDLERS SHALL BE PROVIDED WITH RETURN FILTER RACK FOR 2" PLEATED FILTER WITH FILTER DRAWER OR HINGED FILTER DOOR.

KITCHEN VENTILATION SYSTEM

THE KITCHEN EQUIPMENT PROVIDER SHALL BE ALLOWED TO BID ON KITCHEN HOOD AND RELATED COMPONENTS, INCLUDING KITCHEN EXHAUST FAN AND KITCHEN SUPPLY FAN. THE MECHANICAL CONTRACTOR SHALL PROVIDE A BASE BID TO PROVIDE AND INSTALL KITCHEN VENTILATION EQUIPMENT. PROVIDE AN ALTERNATE BID WITH KITCHEN VENTILATION EQUIPMENT PROVIDED AND INSTALLED BY OTHERS.

CAPTIVEAIRE IS THE BASIS OF DESIGN MANUFACTURER. EQUIVALENT EQUIPMENT MANUFACTURED BY ACCUREX, GREASEMASTER AND GREENHECK AND SHALL BE ACCEPTABLE.

KITCHEN HOOD: TYPE I GREASE FILTER EXHAUST HOODS: THE KITCHEN HOOD SHALL BE, WHERE EXPOSED, STAINLESS STEEL TYPE 430. THE HOOD SHALL BE THE LOW CEILING SLOPED WALL CANOPY TYPE WITH QUARTER VERTICAL SIDE PANELS. PROVIDE LISTED STAINLESS STEEL 2" THICK PANEL TYPE GREASE FILTERS THE FULL LENGTH OF THE HOOD. FILTERS SHALL HAVE MINIMUM 90% GREASE EXTRACTION EFFICIENCY AT 7 MICRONS. HOODS WITH CEILING MAKEUP AIR PLENUM SHALL HAVE DOUBLE WALL INSULATED FRONT. PROVIDE U.L. LISTED LED LIGHTING IN THE HOOD. A PREWIRED SWITCH PLATE SHALL BE INSTALLED ON THE FACE OF THE HOOD AND SHALL INCLUDE A FAN SWITCH WITH PILOT LIGHT AND A LIGHT SWITCH PROVIDE AN INTEGRAL KITCHEN HOOD DEMAND CONTROL VENTILATION SYSTEM TO AUTOMATICALLY REDUCE EXHAUST AND SUPPLY AIRFLOWS BASED ON DEMAND. PROVIDE A WALL-MOUNTED UTILITY CABINET FOR HOOD CONTROLS AND FIRE SUPPRESSION SYSTEM.

MAKEUP AIR PLENUM: PROVIDE A MATCHING CEILING MOUNTED STAINLESS STEEL MAKEUP AIR PLENUM WITH FULL LENGTH, FULL PERIMETER PERFORATED FACE DISCHARGE PANELS, INTERNAL INSULATION AND SUPPLY AIR DUCT COLLARS FOR UP TO 90% MAKEUP AIR. SEE PLANS FOR DETAILS. THE OVERALL WIDTH OF THE PLENUM SHALL BE MINIMUM 18 INCHES ALL AROUND.

FIRE SUPPRESSION SYSTEM: FURNISH AN ANSUL WET CHEMICAL SYSTEM PROVIDING COMPLETE FIRE PROTECTION OF DUCT, HOOD, AND COOKING EQUIPMENT SURFACES. INSTALLATION SHALL BE IN COMPLIANCE WITH CHEMICAL MANUFACTURER'S U.L. LISTING. ALL PIPING SHALL BE RUN IN A CONCEALED MANNER. PIPING EXTENDING UP THROUGH CHASE TO DUCT AND HOOD NOZZLES SHALL BE FITTED WITH SLEEVES FORMING GREASE TIGHT JOINTS. EXPOSED PIPING OF SURFACE PROTECTION NOZZLES SHALL HAVE STAINLESS STEEL SLEEVES WITH CHROME PLATED ELBOWS. SYSTEM SHALL BE ACTIVATED BY FUSIBLE LINKS CONNECTED TO AN AUTOMAN RELEASE. FIT AUTOMAN RELEASE WITH AN ELECTRIC DOUBLE-POLE, DOUBLE-THROW MICROSWITCH FOR CONTROL CIRCUIT. SUPPLY FAN SHALL BE SHUT DOWN WHEN FIRE PROTECTION SYSTEM IS ACTIVATED, LEAVING THE EXHAUST FAN RUNNING. PROVIDE A U.L. LISTED MECHANICAL GAS VALVE, TO PROVIDE AUTOMATIC GAS FUEL SHUTOFF FOR ALL GAS OPERATED APPLIANCES PROTECTED BY THE SYSTEM. THE VALVE SHALL INCORPORATE A MANUAL RESET. PROVIDE AUXILIARY FACTORY INSTALLED RELAYS TO AUTOMATICALLY TRIP SHUNT TRIP SAFETY DEVICES FOR ELECTRICALLY OPERATED APPLIANCES PROTECTED BY THE SYSTEM. THE DEVICES SHALL BE AS INDICATED ON THE ELECTRICAL DRAWINGS. ALSO PROVIDE A RELAY TO AUTOMATICALLY SIGNAL THE BUILDING FIRE ALARM SYSTEM. THE CHEMICAL CYLINDERS AND CONTROLS SHALL BE LOCATED IN FIRE CONTROL CABINET WALL MOUNTED IN THE KITCHEN. PROVIDE A REMOTE MANUAL FLIP STATION AND INTERLOCK WITH SYSTEM.

GREASE DUCTS: KITCHEN HOOD EXHAUST DUCTS SHALL BE FABRICATED FROM 16 GAUGE BLACK STEEL AND SHALL BE INSULATED WITH TWO LAYERS OF FLEXIBLE FIRE-RATED DUCT WRAP SUITABLE FOR ZERO CLEARANCE TO COMBUSTIBLES. KITCHEN HOOD EXHAUST DUCTWORK JOINTS AND SEAMS SHALL HAVE LIQUID-TIGHT CONTINUOUS EXTERNAL WELD PER NFPA-96. ROUTE KITCHEN HOOD EXHAUST DUCTWORK AS DIRECTLY AS POSSIBLE. HORIZONTAL DUCTWORK MUST SLOPE MINIMUM 1/4" PER FOOT TO DRAIN TOWARD THE HOOD. DO NOT CREATE DIPS AND TRAPS WHICH CAN COLLECT RESIDUE. PROVIDE NFPA-96 REMOVABLE DUCT ACCESS DOORS EVERY TWELVE FEET AND AT CHANGES IN DIRECTION. ACCESS DOORS SHALL BE SIZED TO PERMIT DUCT CLEANING. CONFORM TO NFPA-96 FOR LOCATIONS AND INSTALLATION DETAILS. AT THE EXHAUST FAN, INSTALL AN APPROVED FLEXIBLE DUCT CONNECTION.

ALTERNATIVELY, FURNISH DOUBLE WALL FACTORY BUILT GREASE DUCT FOR USE WITH TYPE I KITCHEN HOODS WHICH CONFORMS TO THE REQUIREMENTS OF NFPA-96. PRODUCTS SHALL BE ETL LISTED TO UL-1978 AND UL-2221 FOR VENTING AIR AND GREASE VAPORS FROM COMMERCIAL COOKING OPERATION. THE DUCT WALL ASSEMBLY SHALL BE TESTED AND LISTED AT 1/2" OR ZERO CLEARANCE, ACCORDING TO CLASSIFICATIONS. GREASE DUCT SHALL BE BY AMPCO, CAPTIVEAIRE, GREASEMASTER, SELKIRK OR METAL-FAB.

KITCHEN EXHAUST FAN: THE EXHAUST FAN SHALL BE U.L. LISTED FOR GREASE DUCT USE AND SHALL BE THE UPBLAST UTILITY SET TYPE WITH DIRECT-DRIVEN FAN WITH BACKWARD-INCLINED BLADES, CONTAINING A BUILT-IN GREASE TROUGH AND HAVING A COMPLETELY ISOLATED MOTOR COMPARTMENT AND REMOVABLE COVER. NO BIRDSCREENS OR BACKDRAFT DAMPERS WILL BE PERMITTED PER NFPA 96. PROVIDE DISCONNECT SWITCH. PROVIDE EXHAUST DISCHARGE EXTENSION TO RAISE FAN DISCHARGE 40 INCHES MINIMUM ABOVE THE ROOF SURFACE. FURNISH SUPPORT RAILS SUITABLE FOR THE ROOF SLOPE WITH SUFFICIENT HEIGHT TO COORDINATE WITH REQUIRED EXHAUST DUCT LOCATION. PROVIDE VIBRATION ISOLATION FOR FAN. FANS SHALL BE CAPABLE OF RESISTING 142 MPH WIND LOAD.

KITCHEN SUPPLY FAN: THE MAKEUP AIR SUPPLY FAN SHALL BE THE OUTDOOR TYPE AND SHALL BE ETL LISTED. UNIT SHALL BE THE FILTERED, HORIZONTAL DISCHARGE TYPE. SEE DRAWINGS. UNIT SHALL BE OF INTERNAL FRAME TYPE CONSTRUCTED FROM GALVANIZED STEEL FRAMES AND PANELS. METAL-TO-METAL SURFACES EXPOSED TO WEATHER SHALL BE SEALED. ALL COMPONENTS SHALL BE ACCESSIBLE THROUGH REMOVABLE OR HINGED DOORS. UNIT CASING SHALL BE INSULATED WITH 1 INCH FIBERGLASS LINER IN ACCORDANCE WITH NFPA 90A AND TESTED TO MEET UL 181 EROSION REQUIREMENTS. SECURE INSULATION WITH WATERPROOF ADHESIVE AND PERMANENT MECHANICAL FASTENERS.

Table with 12 columns: UNIT ID, OUTSIDE AIRFLOW (CFM), FAN DESIGN AIRFLOW (CFM), ESP (IN. WG), TOTAL (MBH), SENSIBLE (MBH), ENTERING AIR DB (°F), WB (°F), ELECTRIC HEATER (KW), VOLT, PH, HSPF, SEER, SEACOAST PROTECTION, BASIS OF DESIGN. Includes unit AH-1 HP-1.

- 1. REFER TO ELECTRICAL PLANS FOR POWER INFORMATION.
2. PROVIDE AIR TREATMENT DEVICES FOR AH-1.
3. MOUNT HEAT PUMP TO WIND-RATED EQUIPMENT STAND WITH NEOPRENE PAD ISOLATION.
4. HEAT PUMP SYSTEM SHALL COMPLY WITH 2023 DOE EFFICIENCY REQUIREMENTS.

Table with 12 columns: UNIT ID, TYPE, FAN DESIGN AIRFLOW (CFM), ESP (IN. WG), TOTAL (MBH), SENSIBLE (MBH), ENTERING AIR DB (°F), WB (°F), HEATING CAPACITY (MBH), VOLT, PH, SEER, SEACOAST PROTECTION, BASIS OF DESIGN. Includes units DAH-1 DHP-1, DAH-2 DHP-2.

- 1. REFER TO ELECTRICAL PLANS FOR POWER INFORMATION.
2. PROVIDE AIR TREATMENT DEVICES FOR AH-1.
3. MOUNT DHP UNITS TO WIND-RATED EQUIPMENT STAND WITH NEOPRENE PAD ISOLATION.

Table with 12 columns: UNIT ID, UNIT TYPE, DESIGN AIRFLOW (CFM), ESP (IN. WG), DRIVE TYPE, RPM, MOTOR POWER (HP), INLET SONE, VOLT, PH, BASIS OF DESIGN. Includes units EF-A, KEF-1, KEF-2, KEF-3, KSF-1.

- 1. REFER TO ELECTRICAL PLANS FOR POWER INFORMATION.
2. EF-A SHALL INTERLOCK WITH ASSOCIATED WALL SWITCH IN TOILET ROOM.
3. PROVIDE KEF-1-2 WITH VFD AND INTERLOCK WITH KITCHEN HOOD OPERATION.
4. PROVIDE KEF-3 WITH VFD AND INTERLOCK WITH PIZZA OVEN OPERATION.
5. MOUNT KSF-1 TO 2" DEFLECTION ROOF CURB WITH NEOPRENE PAD ISOLATION.
6. PROVIDE DEMAND CONTROL VENTILATION SYSTEM TO VARY SUPPLY AIRFLOW IN RESPONSE TO (3) KITCHEN EXHAUST FANS AND OPERATE ASSOCIATED MOTORIZED DAMPERS ACCORDINGLY. KSF-1 AIRFLOWS SHALL BE 90% OF ASSOCIATED KEF AIRFLOWS.

Table with 8 columns: ID, DESCRIPTION, FACE SIZE, NECK WIDTH, HEIGHT, INSTALLATION TYPE, MATERIAL, BASIS OF DESIGN. Includes units LSD1, RG1, SD1, SD2, SD3.



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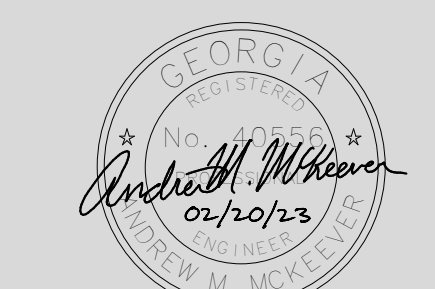
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Revisions

Table with 3 columns: No, Date, Description

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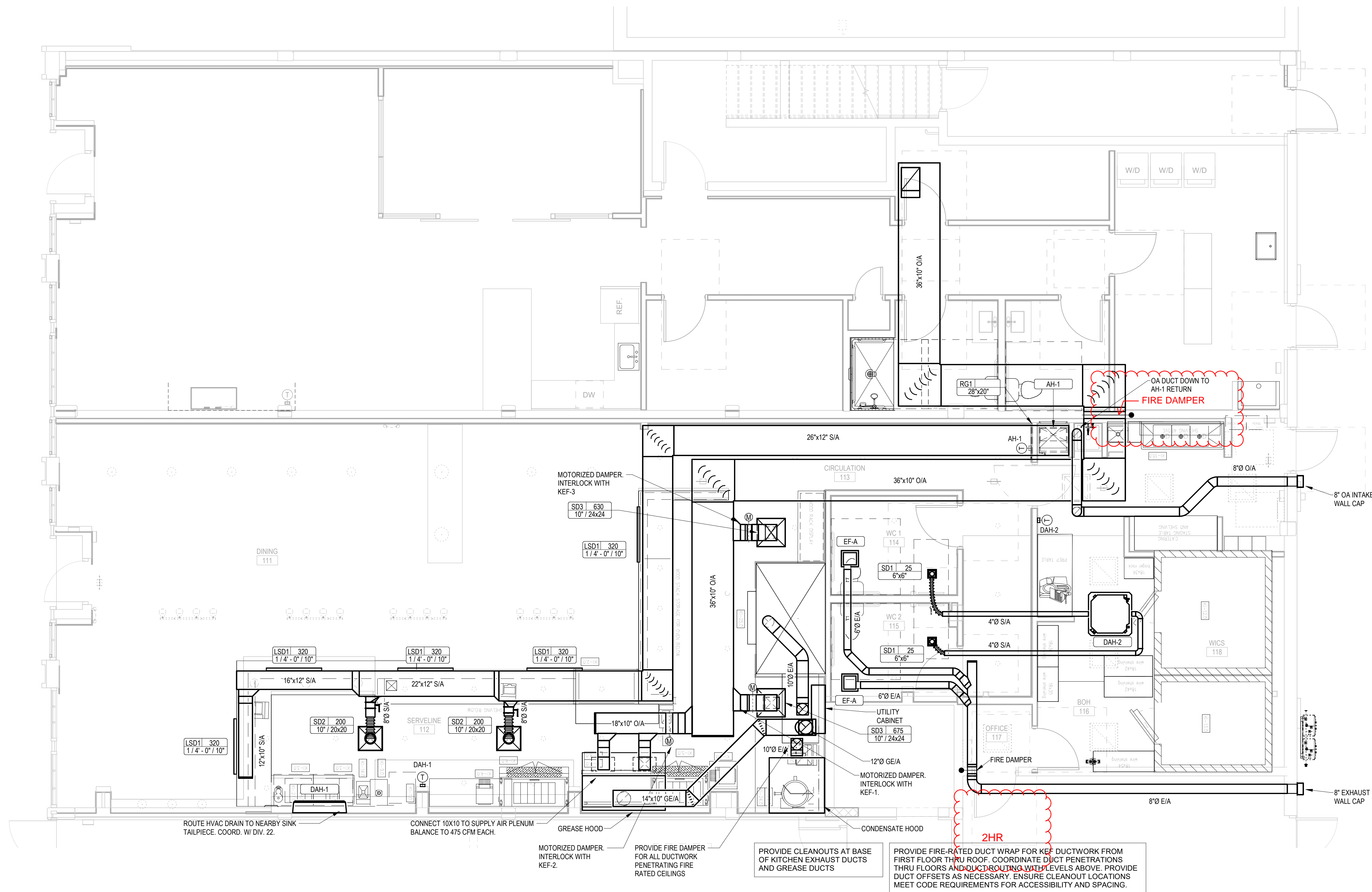
MECHANICAL SPECIFICATIONS

Status 100%
Date FEBRUARY 20TH, 2023
Project No. 2228.00
Drawing No.

M001



- HVAC SHEET NOTES**
- A CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE AND WORKING SYSTEM.
 - B INSTALL, SUPPORT, & BRACE NEW DUCTWORK AND ACCESSORIES PER SMACNA GUIDELINES.
 - C DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS. CONTRACTOR SHALL MAKE ALLOWANCE FOR ANY INTERIOR LINING, INSULATION, ETC.
 - D ALL NEW DUCT ELBOWS SHALL BE RADIUS TYPE. WHERE NECESSARY, CONTRACTOR MAY SUBSTITUTE MITERED ELBOWS WITH TURNING VANES.
 - E PROVIDE FLAT BLADE MANUAL VOLUME DAMPERS AT ALL TERMINAL DUCT BRANCHES AND AS INDICATED.
 - F INSTALL EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. ROOFTOP EQUIPMENT SHALL BE LOCATED NO CLOSER THAN 10'-0" FROM THE ROOF EDGE.
 - G ALL PRIMARY CONDENSATE DRAIN PIPING SHALL BE INSULATED TO A MINIMUM THICKNESS OF 1/2" AND SHALL INCLUDE A VAPOR RETARDANT OUTSIDE THE INSULATION. SEAL ALL JOINTS AND PENETRATIONS.
 - H COORDINATE ALL EXTERIOR PENETRATIONS INCLUDING ROOF PENETRATIONS WITH OTHER TRADES TO PROVIDE A COMPLETE AND FULLY WEATHER-PROOF INSTALLATION.
 - I ALL TRANSFER DUCTWORK SHALL BE INTERNALLY LINED WITH MINIMUM 1/2" ACOUSTIC LINING.
 - J NG AND BALANCE FIRM CERTIFIED BY AABC TO PERFORM TESTING AND BALANCING PROCEDURES ON EACH SYSTEM ACCORDING TO THE PROCEDURES CONTAINED IN AABC'S NATIONAL STANDARDS FOR TESTING AND BALANCING HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS AND PROVIDE TWO COPIES OF THE CERTIFIED TAB REPORTS.
 - L THIS DRAWING IS DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED TO DETERMINE THE EXACT LOCATION OR EXTENT OF THE WORK. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO THE START OF THE WORK. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A COMPLETE AND WORKING SYSTEM.



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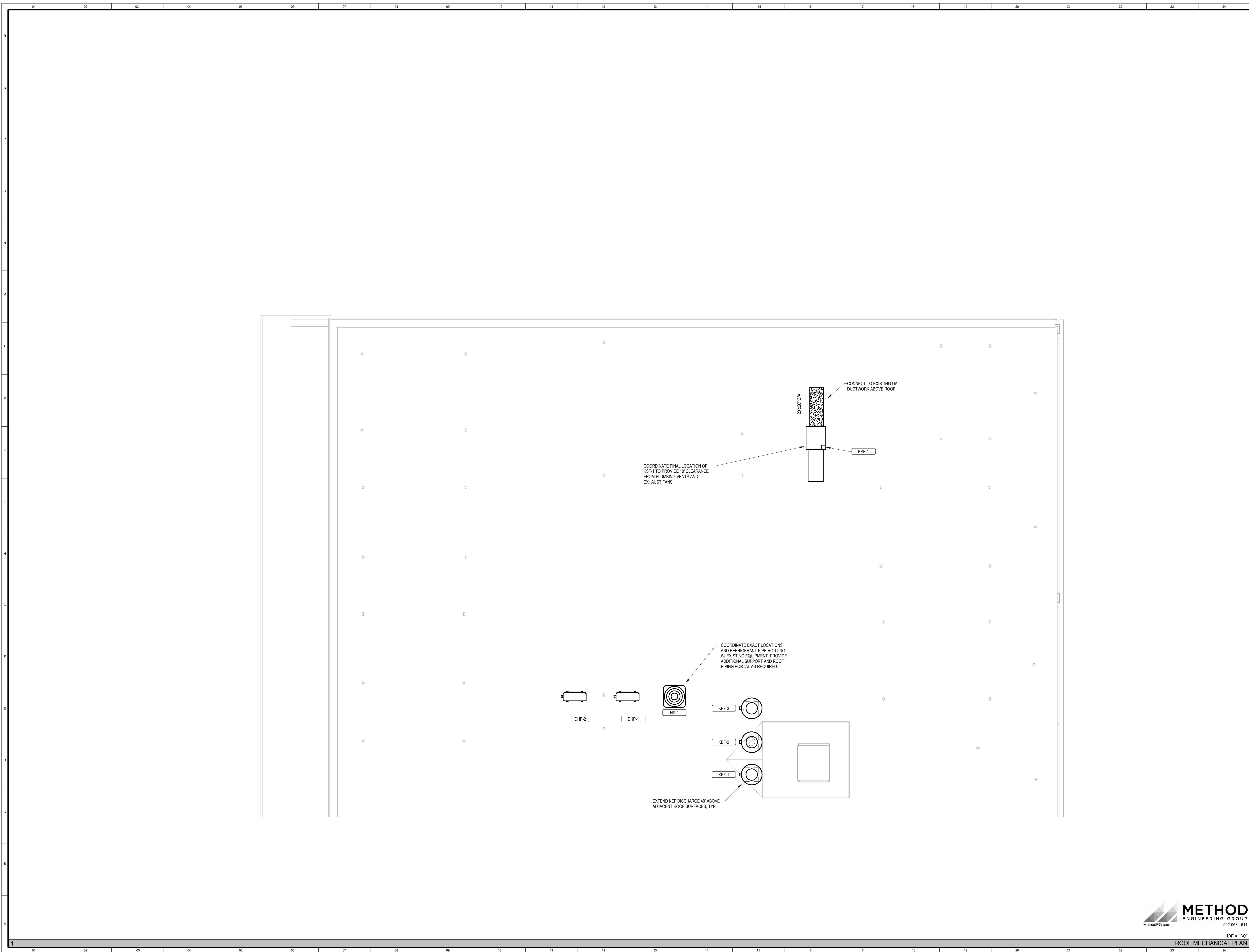
HVAC PLAN

Status 100%
Date FEBRUARY 20TH, 2023
Project No. 2228.00
Drawing No.



M101

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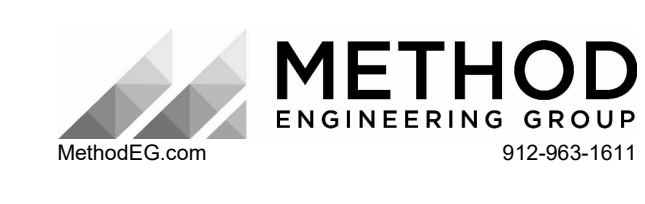
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ROOF HVAC PLAN

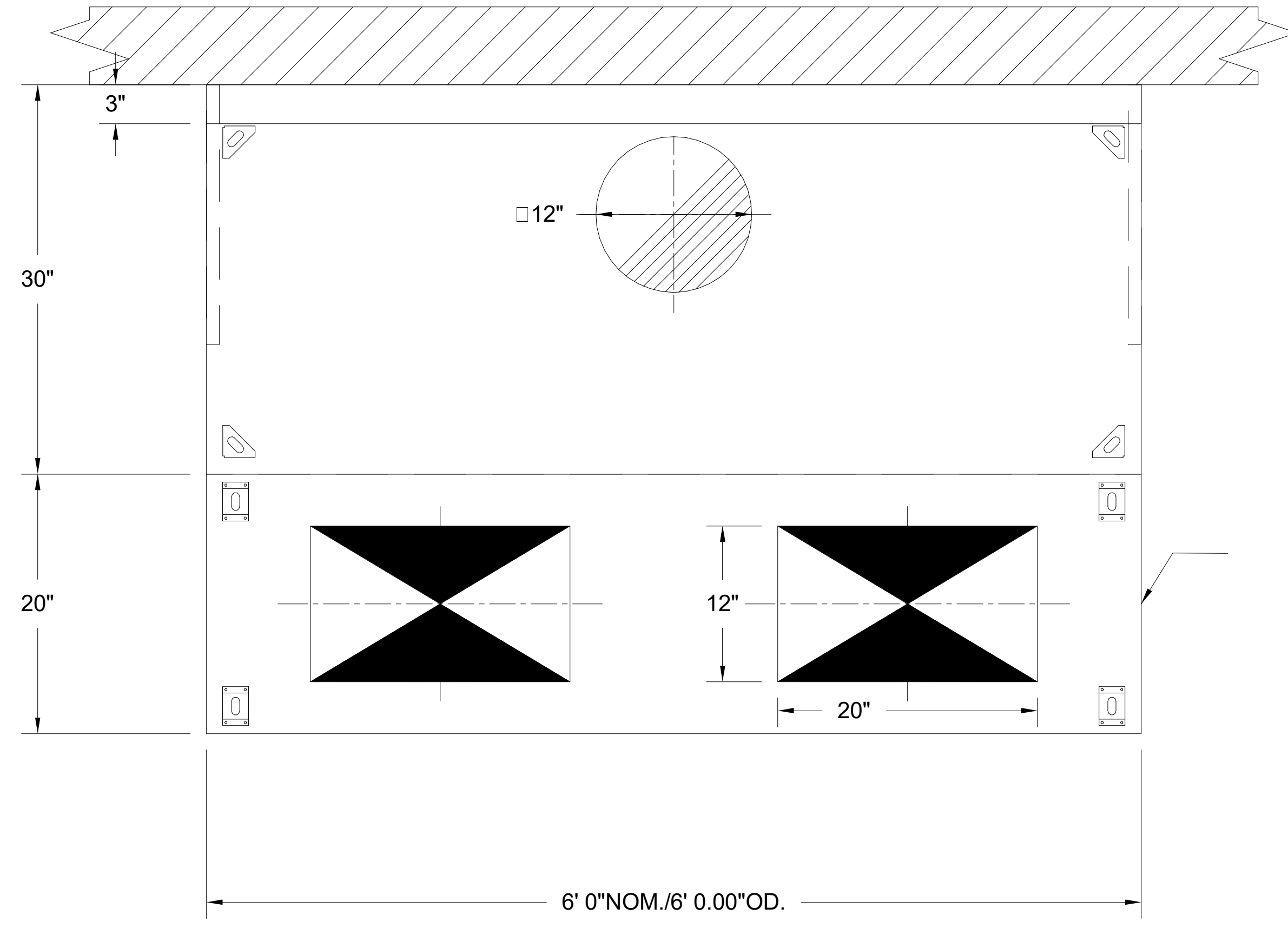
Status	100%
Date	FEBRUARY 20TH, 2023
Project No.	2228.00
Drawing No.	

M102

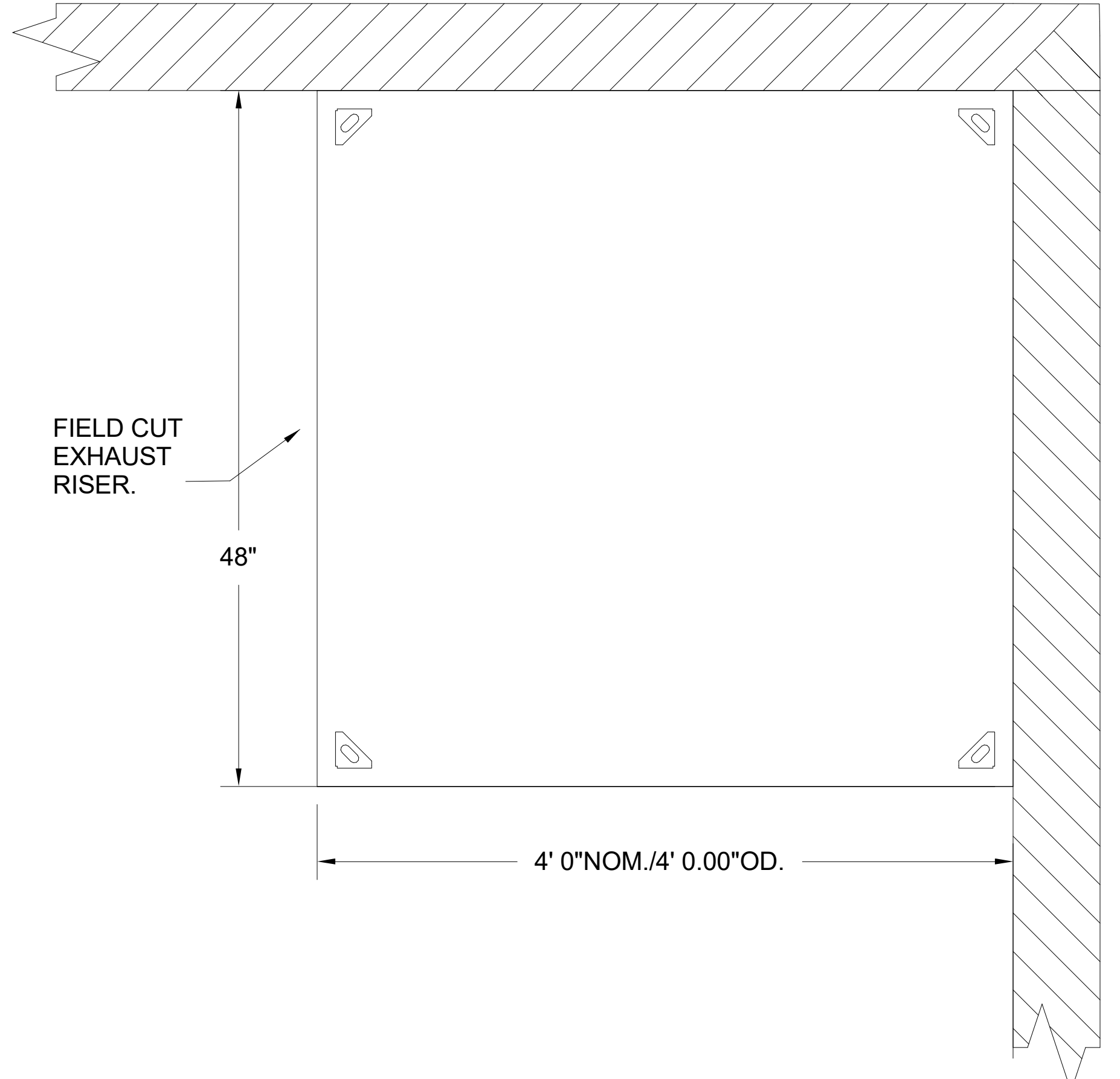


1/4" = 1'-0"
ROOF MECHANICAL PLAN

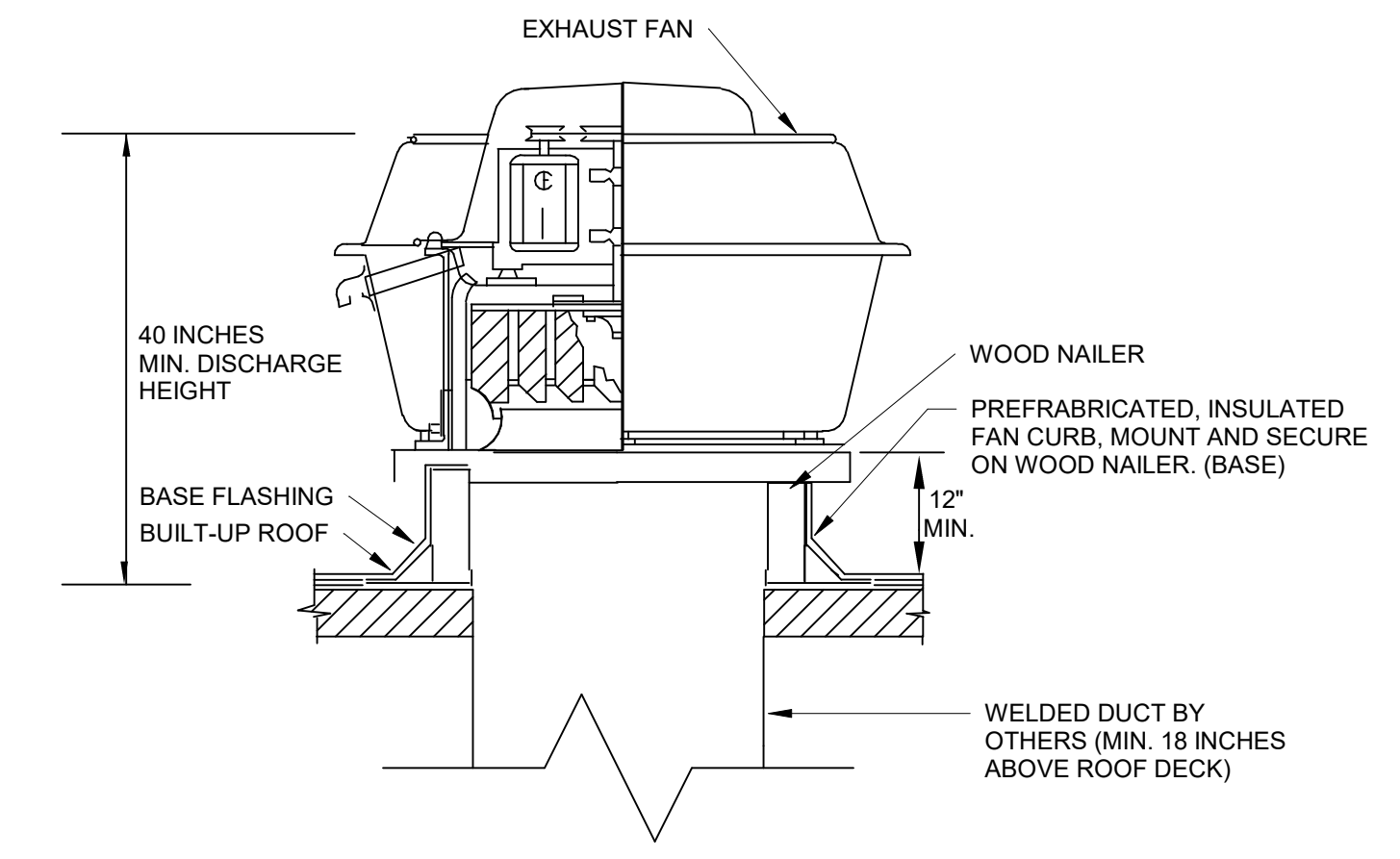
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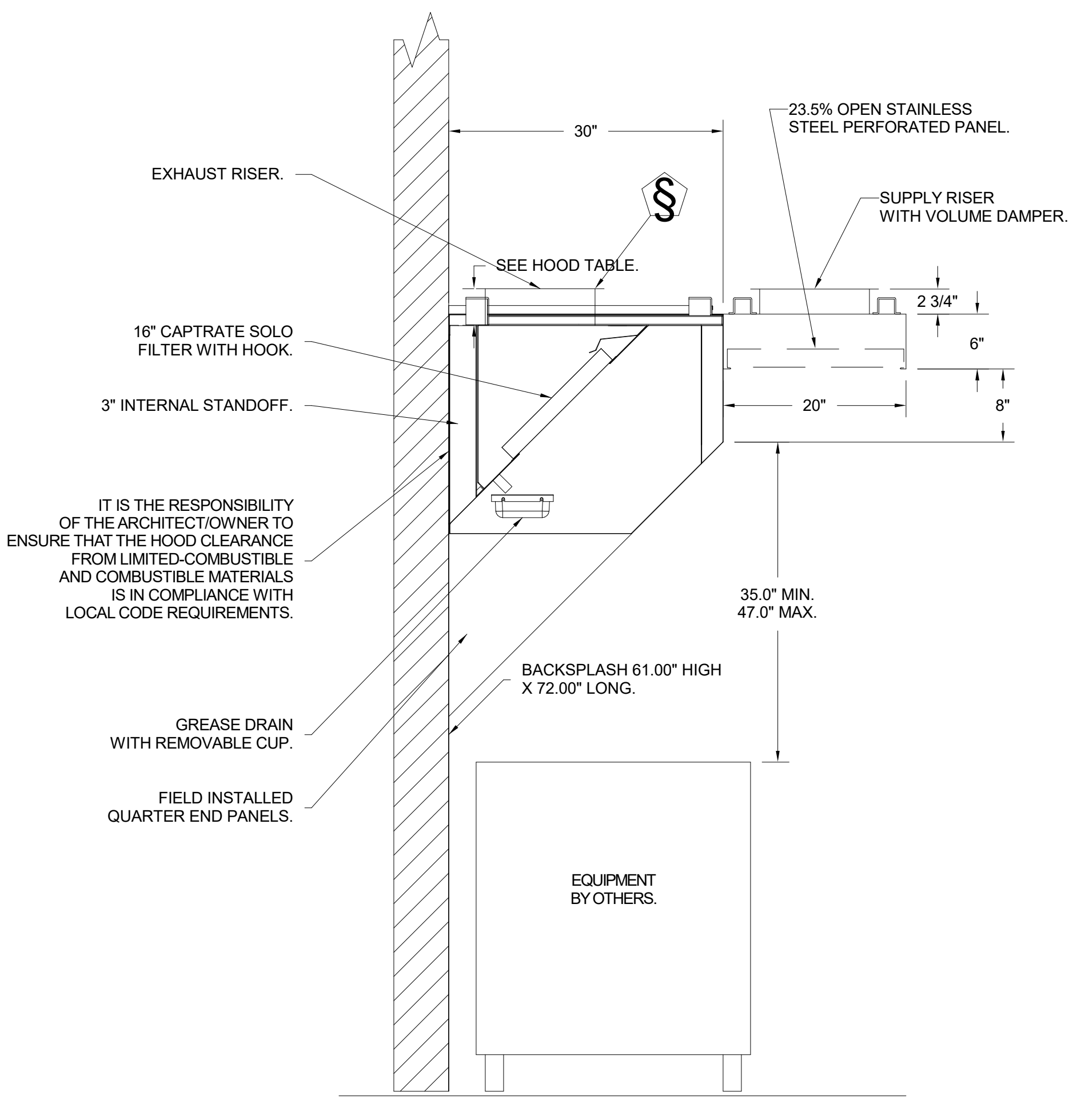
1 1/2" = 1'-0"
HOOD 1 DETAIL



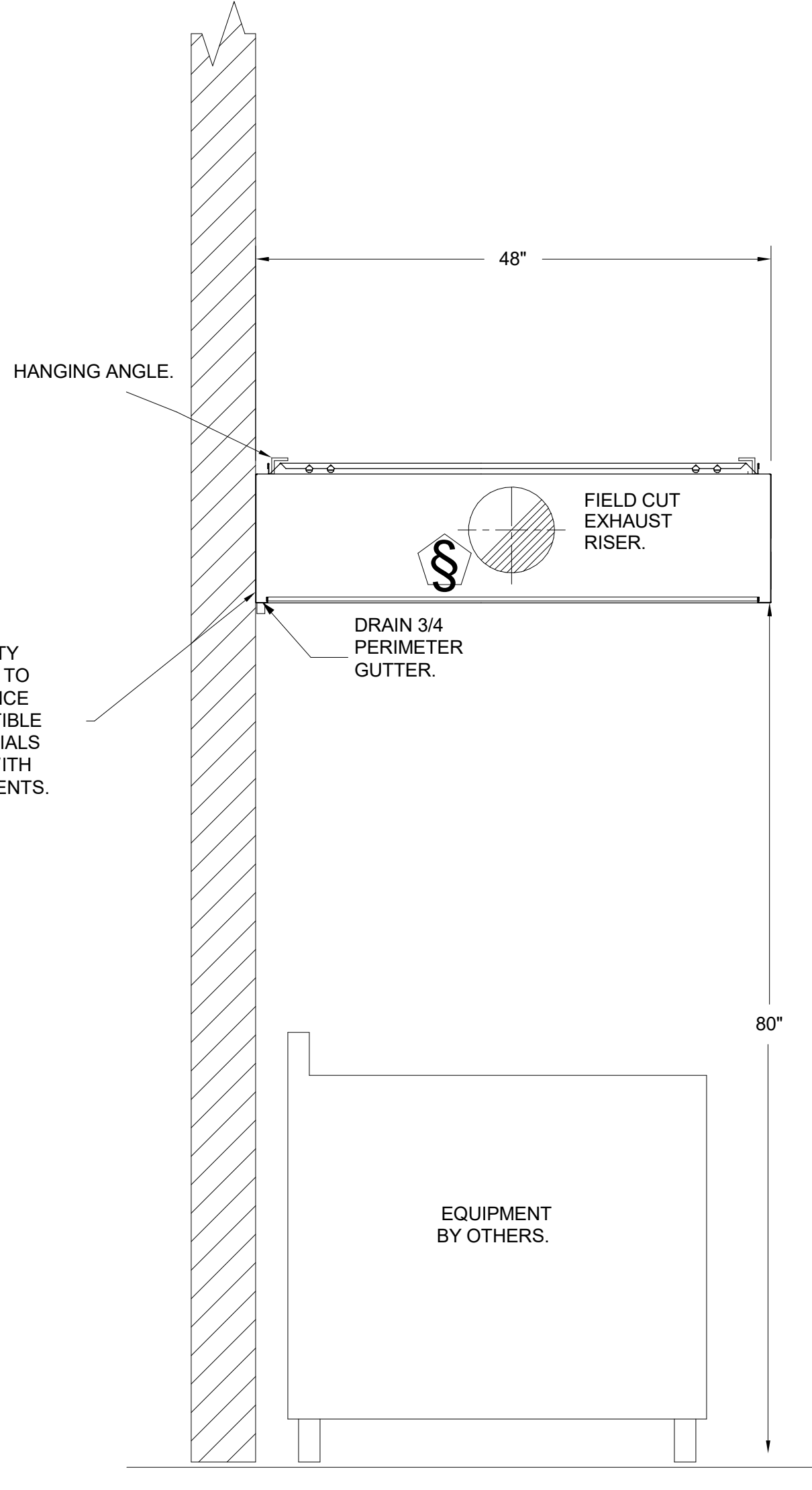
1 1/2" = 1'-0"
HOOD 2 DETAIL



NOT TO SCALE
ROOF-MOUNTED EXHAUST FAN DETAIL - UPBLAST



1" = 1'-0"
HOOD 1 SIDE VIEW DETAIL



1" = 1'-0"
HOOD 2 SIDE VIEW DETAIL



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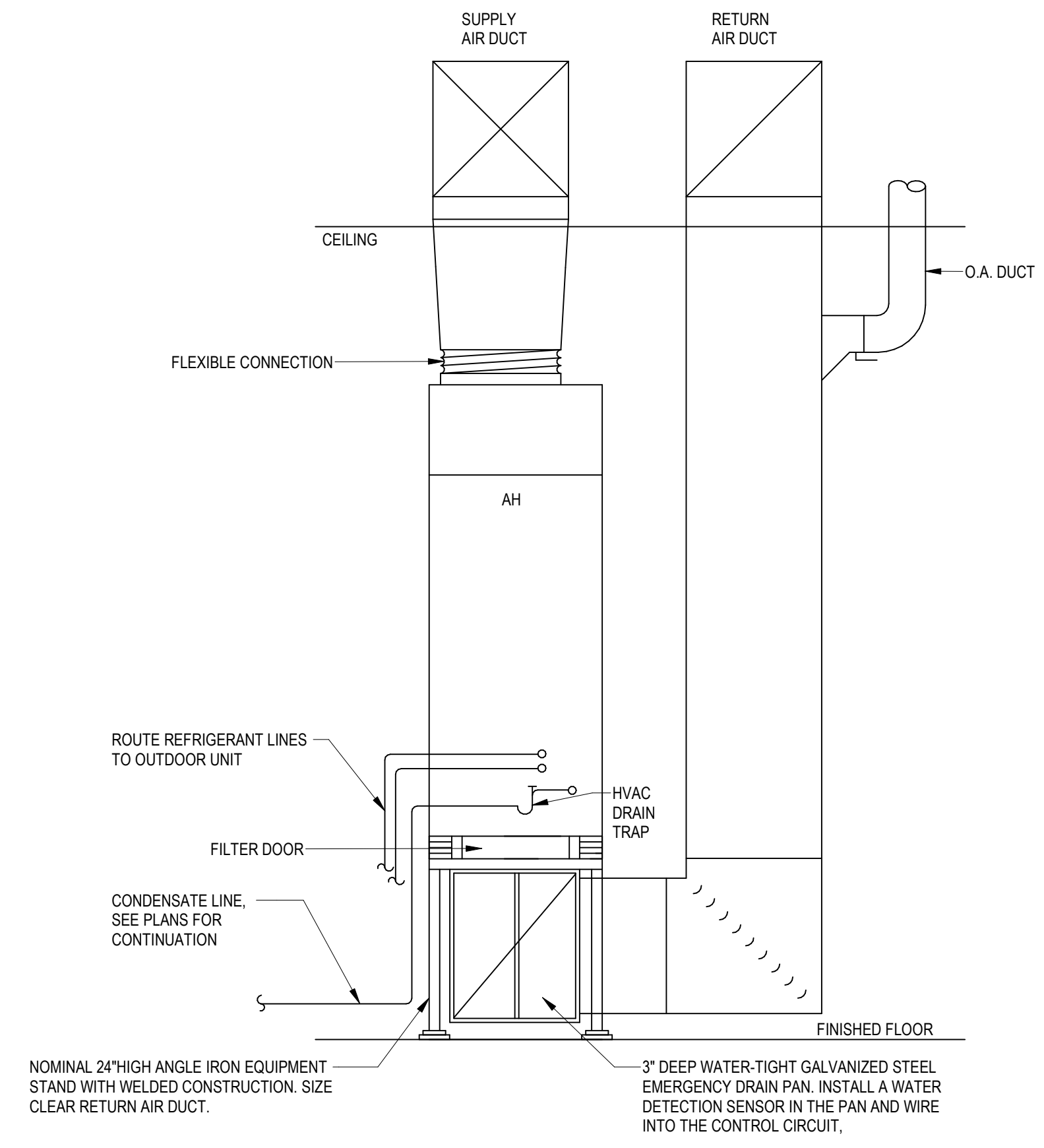
HVAC DETAILS

Status	100%
Date	FEBRUARY 20TH, 2023
Project No.	2228.00
Drawing No.	

M201

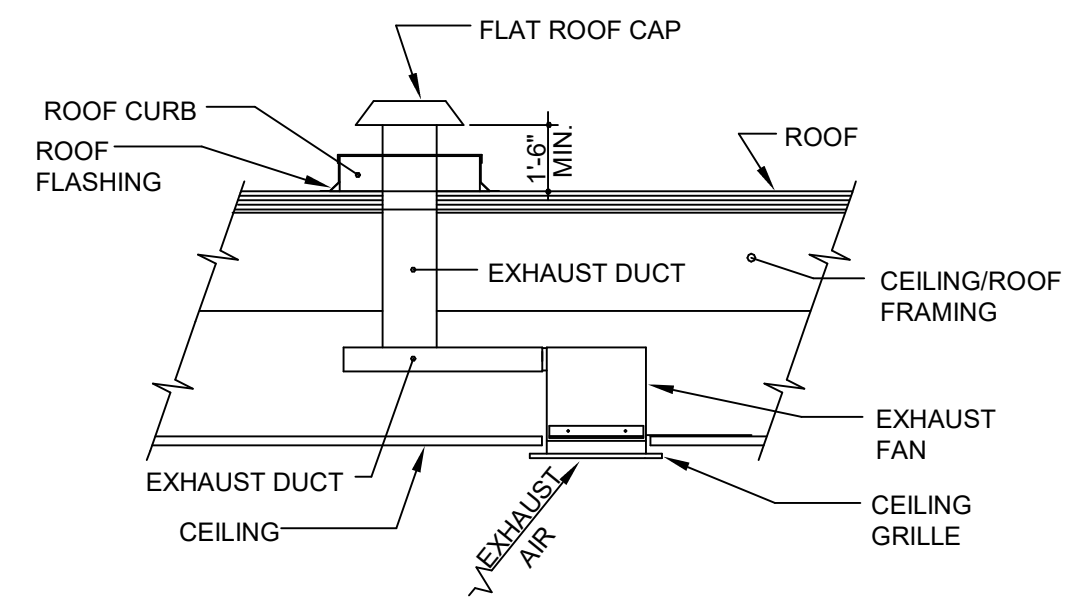


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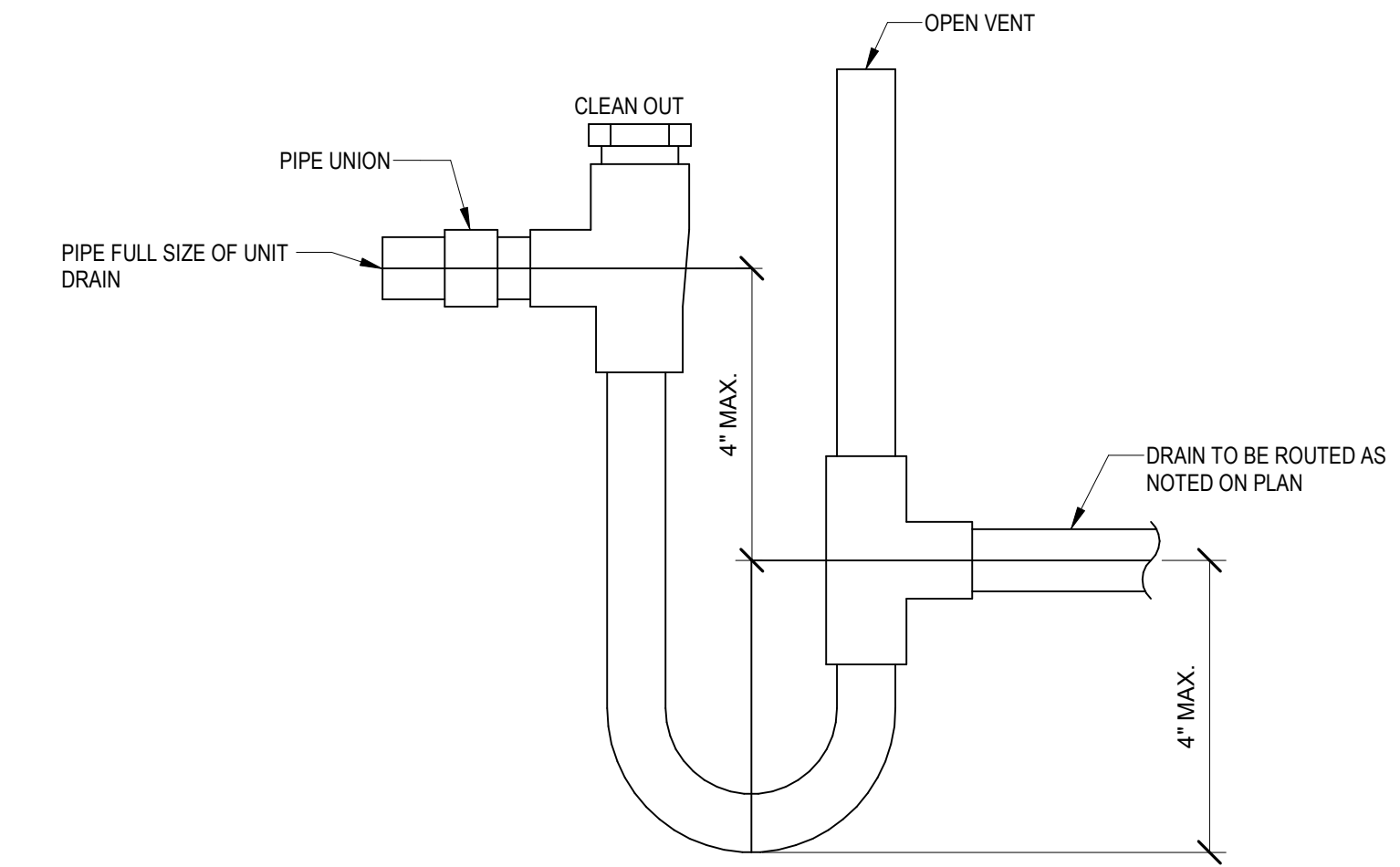
NOT TO SCALE

VERTICAL AIR HANDLER DETAIL 2



NOT TO SCALE

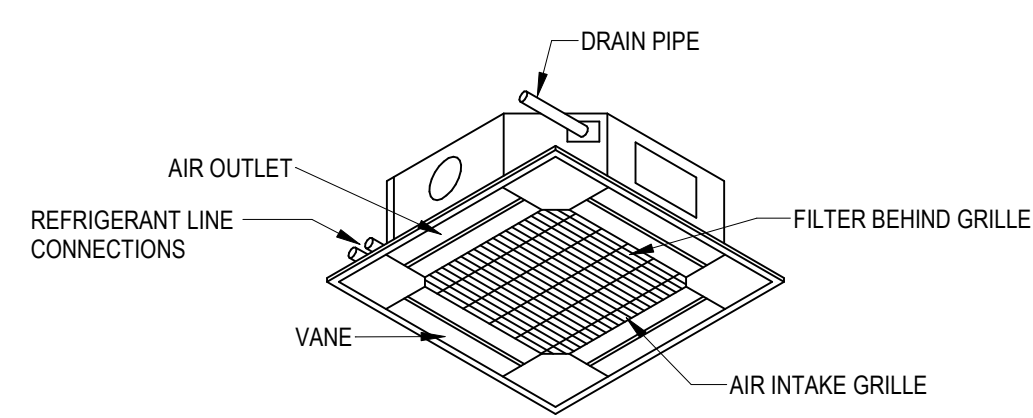
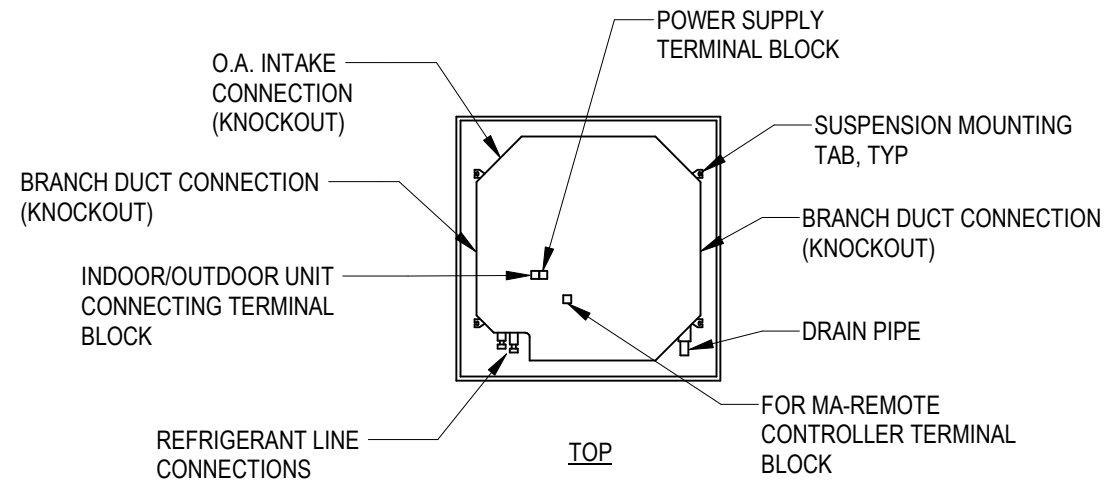
AIR HANDLER DETAIL 3



- NOTES:
1. PIPING SHALL MAINTAIN A MINIMUM SLOPE OF 1/8" PER FOOT IN THE DIRECTION OF DISCHARGE.
 2. LOCATE TRAPS SO AS TO BE ACCESSIBLE FOR CLEANING.

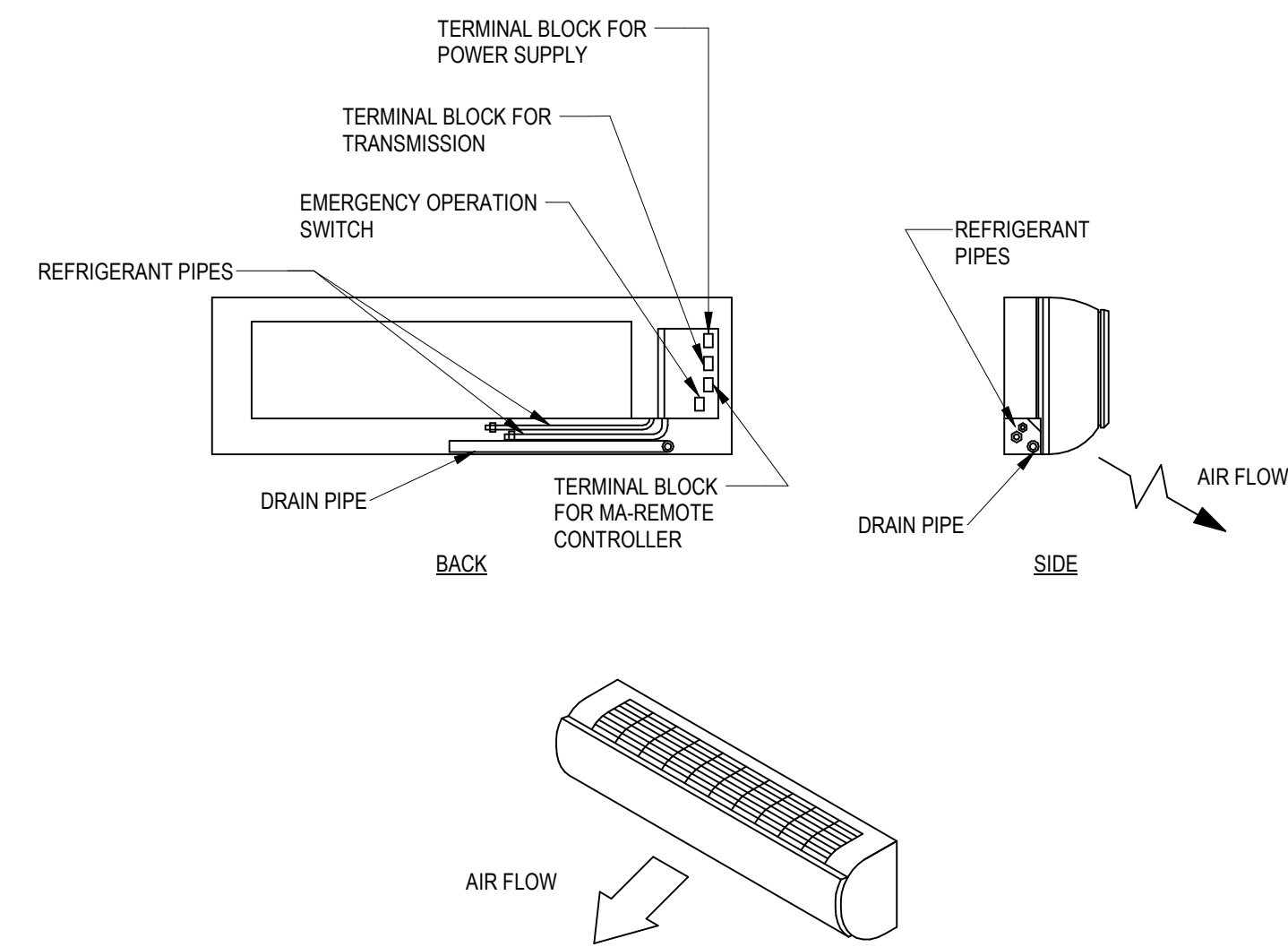
NOT TO SCALE

HVAC - HVAC DRAIN DETAIL 1



NOT TO SCALE

DUCTLESS HEAT PUMP - CEILING CASSETTE DETAIL 5



NOT TO SCALE

WALL MOUNTED DUCTLESS HEAT PUMP DETAIL



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HVAC DETAILS

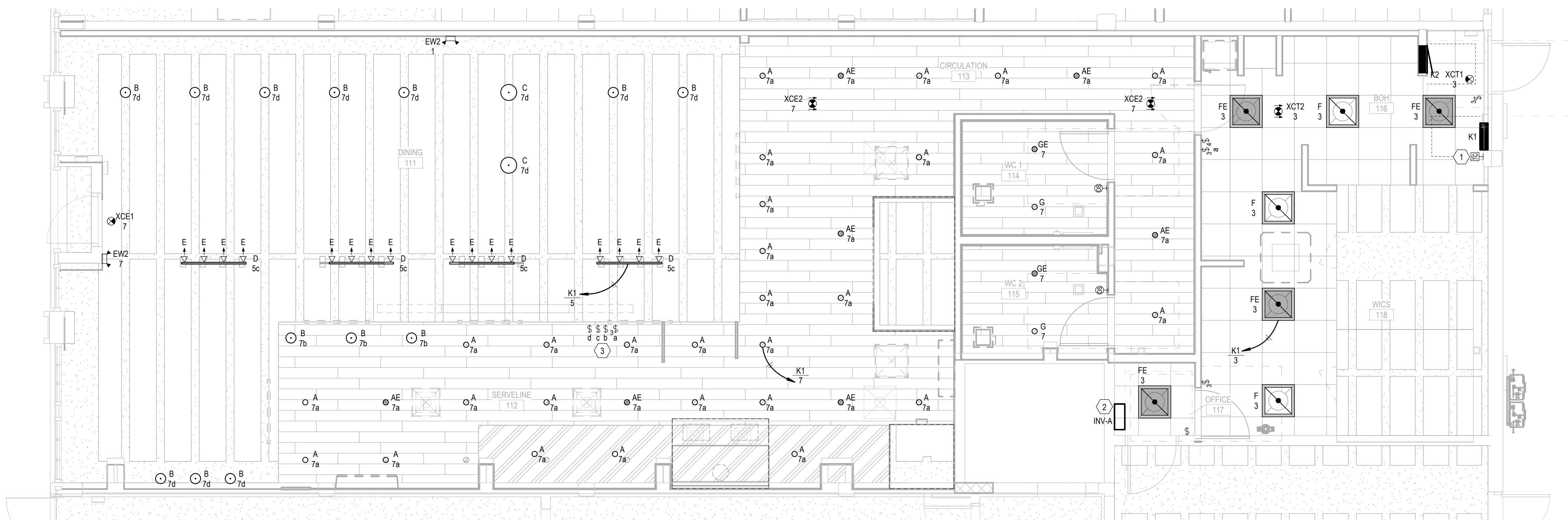
Status	100%
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Project No.	2228.00
Drawing No.	

M202

LIGHTING FIXTURE SCHEDULE																			
TYPE	CONSTRUCTION				LIGHT SOURCE					ELECTRICAL					PRODUCT		NOTE	Type	
	DESCRIPTION	FINISH	LENS/OVER	MOUNTING	LAMP	LUMENS DOWN	LUMENS UP	CCT	CRI	PROJECTED LIFE	BALLAST/DRIVER	VOLT	WATTS	WIR	EMERGENCY COMPONENT	MFR			MODEL
A	4" DOWNLIGHT SHALLOW HOUSING	CLEAR	SEMI-SPECULAR	RECESSED	LED	1500 lm	0 lm	3500 K	80	60,000 HOURS	LED DRIVER, 0-10V DIMMING, 1%	120 V	15 W	--	--	INDY	LLP4 SERIES	--	A
AE	4" DOWNLIGHT SHALLOW HOUSING	CLEAR	SEMI-SPECULAR	RECESSED	LED	1500 lm	0 lm	3500 K	80	60,000 HOURS	LED DRIVER, 0-10V DIMMING, 1%	120 V	15 W	--	INVERTER	INDY	LLP4 SERIES	SEE PLANS FOR LOCATION OF INVERTER	AE
B	DECORATIVE PENDANT	--	--	SURFACE	LED	1500 lm	0 lm	3500 K	80	60,000 HOURS	LED DRIVER, 0-10V DIMMING, 1%	120 V	30 W	--	--	SELECTED BY ARCHITECT	PROVIDE \$400 ALLOWANCE PER FIXTURE	--	B
C	DECORATIVE PENDANT	--	--	SURFACE	LED	2000 lm	0 lm	3500 K	80	60,000 HOURS	LED DRIVER, 0-10V DIMMING, 1%	120 V	60 W	--	--	SELECTED BY ARCHITECT	PROVIDE \$500 ALLOWANCE PER FIXTURE	--	C
D	LIGHTING TRACK, SINGLE-CIRCUIT	WHITE	--	CEILING SURFACE	LED	0 lm	0 lm	0 K	0	--	--	120 V	<varies>	67.5	--	JUNO	T XFT WH	--	D
E	TRACK HEAD, FLOOD	WHITE	--	TRACK	LED	2878 lm	0 lm	3500 K	90	50,000 HOURS	LED DRIVER, ELV DIMMABLE, 2%	120 V	34 W	--	--	--	T26SL G2 38K 90CRI PDM FL WH	--	E
EW2	ELU INDOOR, TWO HEAD	WHITE	--	SURFACE WALL	LED	1000 lm	0 lm	5000 K	80	--	--	120 V	12 W	--	BATTERY	LITHONIA	ELM6L SERIES	--	EW2
F	2X2 RECESSED BACK-LIT FLAT PANEL	WHITE	FROSTED ACRYLIC	LAY-IN	LED	2400 lm	0 lm	3500 K	80	60,000 HOURS	LED DRIVER, 0-10V DIMMING, 1%	120 V	35 W	--	--	LITHONIA	CPANL LED SERIES	NSF RATED	F
FE	2X2 RECESSED BACK-LIT FLAT PANEL	WHITE	FROSTED ACRYLIC	LAY-IN	LED	2400 lm	0 lm	3500 K	80	60,000 HOURS	LED DRIVER, 0-10V DIMMING, 1%	120 V	35 W	--	BATTERY (1000 LUMEN MIN)	LITHONIA	CPANL LED SERIES	NSF RATED	FE
G	4" DOWNLIGHT	CLEAR	SEMI-SPECULAR	RECESSED	LED	1500 lm	0 lm	3500 K	80	60,000 HOURS	LED DRIVER, 0-10V DIMMING, 1%	120 V	15 W	--	--	LITHONIA	LDN4 SERIES	--	G
GE	4" DOWNLIGHT	CLEAR	SEMI-SPECULAR	RECESSED	LED	1500 lm	0 lm	3500 K	80	60,000 HOURS	LED DRIVER, 0-10V DIMMING, 1%	120 V	15 W	--	BATTERY (1000 LUMEN MIN)	LITHONIA	LDN4 SERIES	PROVIDE INTEGRAL BATTERY TEST PUSHBUTTON	GE
XCE1	EXIT SIGN, EDGE-LIT, 1-SIDED	WHITE CANOPY WITH RED LETTERING	--	CEILING	LED	0 lm	0 lm	0 K	0	--	--	120 V	5 W	--	BATTERY	LITHONIA	EDGR SERIES	--	XCE1
XCE2	EXIT SIGN, EDGE-LIT, 2-SIDED	WHITE CANOPY WITH RED LETTERING	--	CEILING	LED	0 lm	0 lm	0 K	0	--	--	120 V	10 W	--	BATTERY	LITHONIA	EDGR SERIES	--	XCE2
XCT1	EXIT SIGN, THERMOPLASTIC, 1-SIDED	WHITE HOUSING WITH RED LETTERING	--	CEILING	LED	0 lm	0 lm	0 K	0	--	--	120 V	5 W	--	BATTERY	LITHONIA	LQM SERIES	--	XCT1
XCT2	EXIT SIGN, THERMOPLASTIC, 2-SIDED	WHITE HOUSING WITH RED LETTERING	--	CEILING	LED	0 lm	0 lm	0 K	0	--	--	120 V	10 W	--	BATTERY	LITHONIA	LQM SERIES	--	XCT2

- LIGHTING SHEET NOTES**
- A ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6' LONG FLEXIBLE METAL CONDUIT.
 - B ALL MOUNTING HEIGHTS FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURES UNLESS INDICATED OTHERWISE.
 - C SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTING FIXTURES.
 - D CIRCUIT WIRING IS NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
 - E CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
 - F WHERE WALL MOUNTED FIXTURES REQUIRE A LARGER BACKBOX FOR ELECTRONIC ITEMS SUCH AS AN EMERGENCY BATTERY, PROVIDE THE SAME LARGER SIZE BACKBOX FOR ALL FIXTURES OF THE SAME TYPE IN THE SPACE.

- KEYNOTES**
- 1 PROVIDE 24/7 PROGRAMMABLE TIMER SWITCH WITH ASTRONOMICAL TIMECLOCK. ROUTE CIRCUIT 7 THROUGH TIMER FOR AUTOMATIC SHUTOFF OF FIXTURES. COORDINATE PROGRAMMING WITH OWNER. BASIS OF DESIGN IS INTERMATIC E800 OR EQUAL.
 - 2 PROVIDE MINIMUM 175VA INVERTER FOR TYPE "AE" FIXTURES. MOUNT INVERTER 6" FROM TOP OF INVERTER TO CEILING. BASIS OF DESIGN IS IOTA IS 250 HE DR SERIES OR EQUAL BY BODINE.
 - 3 COORDINATE EXACT LOCATION OF DIMMERS WITH OWNER PRIOR TO ROUGH-IN.



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Revisions

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LIGHTING PLAN
Status 100%
Date FEBRUARY 20TH, 2023
Project No. 2228.00
Drawing No.



E101
1/4" = 1'-0"
LIGHTING PLAN

3/10/2023 4:09:39 PM

NO.	DESCRIPTION	ROOM	LOAD				VOLT	PHASE	CONDUIT & WIRE SIZE	DISCONNECT	CONNECTION	NOTES	NO.
			WATTS	FLA	MCA	MOCP							
1.0	ICE MAKER	SERVELINE	720 VA	6.0 A	7.5 A	20 A	120 V	1	2#12.#12G, 1/2" C	NEMA 5-20R	CORD AND PLUG	1.0	
2.0	STANDUP MERCHANDISER	SERVELINE	900 VA	7.5 A	9.4 A	20 A	120 V	1	2#12.#12G, 1/2" C	NEMA 5-20R	CORD AND PLUG	2.0	
3.0	UNDERCOUNTER REFRIGERATOR	SERVELINE	276 VA	2.3 A	2.9 A	20 A	120 V	1	2#12.#12G, 1/2" C	NEMA 5-20R	CORD AND PLUG	3.0	
3.0	UNDERCOUNTER REFRIGERATOR	SERVELINE	276 VA	2.3 A	2.9 A	20 A	120 V	1	2#12.#12G, 1/2" C	NEMA 5-20R	CORD AND PLUG	3.0	
4.0	TOASTER CONVEYER	SERVELINE	4451 VA	21.4 A	26.8 A	30 A	208 V	1	2#10.#10G, 1/2" C	NEMA 6-30R	CORD AND PLUG	4.0	
4.0	TOASTER CONVEYER	SERVELINE	4451 VA	21.4 A	26.8 A	30 A	208 V	1	2#10.#10G, 1/2" C	NEMA 6-30R	CORD AND PLUG	4.0	
5.0	SANDWICH/SALAD PREP FRIDGE	SERVELINE	276 VA	2.3 A	2.9 A	20 A	120 V	1	2#12.#12G, 1/2" C	NEMA 5-20R	CORD AND PLUG	5.0	
6.0	SANDWICH/SALAD PREP FRIDGE	SERVELINE	900 VA	7.5 A	9.4 A	20 A	120 V	1	2#12.#12G, 1/2" C	NEMA 5-20R	CORD AND PLUG	6.0	
7.0	48" GAS GRIDDLE	SERVELINE	180 VA	1.5 A	1.9 A	20 A	120 V	1	2#12.#12G, 1/2" C	NEMA 5-20R	CORD AND PLUG	7.0	
8.0	4" REFRIGERATED CHEF BASE	SERVELINE	252 VA	2.1 A	2.6 A	20 A	120 V	1	2#12.#12G, 1/2" C	NEMA 5-20R	CORD AND PLUG	8.0	
12.0A	EVAPORATOR COIL	WICS	180 VA	1.5 A	1.9 A	15 A	120 V	1	2#12.#12G, 1/2" C	NON-FUSIBLE DISCONNECT - NEMA 1	DIRECT CONNECTION	12.0A	
12.0B	WALK IN COOLER LIGHTS	BOH	180 VA	1.5 A	1.9 A	15 A	120 V	1	2#12.#12G, 1/2" C	SWITCH	DIRECT CONNECTION	12.0B	
12.0C	CONDENSING UNIT	BOH	1288 VA	6.1 A	7.6 A	15 A	208 V	1	2#12.#12G, 1/2" C	NON-FUSIBLE DISCONNECT - NEMA 3R	DIRECT CONNECTION	12.0C	
13.0A	EVAPORATOR COIL	WICS	180 VA	1.5 A	1.9 A	15 A	120 V	1	2#12.#12G, 1/2" C	NON-FUSIBLE DISCONNECT - NEMA 1	DIRECT CONNECTION	13.0A	
13.0B	WALK IN FREEZER LIGHTS	BOH	180 VA	1.5 A	1.9 A	15 A	120 V	1	2#12.#12G, 1/2" C	SWITCH	DIRECT CONNECTION	13.0B	
13.0C	CONDENSING UNIT	BOH	2517 VA	12.1 A	15.1 A	20 A	208 V	1	2#12.#12G, 1/2" C	NON-FUSIBLE DISCONNECT - NEMA 3R	DIRECT CONNECTION	13.0C	
22.0	STEAM KETTLE	SERVELINE	252 VA	2.1 A	2.6 A	20 A	120 V	1	2#12.#12G, 1/2" C	NEMA 5-20R	CORD AND PLUG	22.0	
23.0	GARBAGE DISPOSAL	BOH	696 VA	5.8 A	7.3 A	20 A	120 V	1	2#12.#12G, 1/2" C	BREAKER LOCK	DIRECT CONNECTION	PROVIDE BREAKER LOCK PER NEC 110.25	
25.0	WOOD STONE FIRE DECK OVEN, GAS	SERVELINE	240 VA	2.0 A	2.5 A	20 A	120 V	1	2#12.#12G, 1/2" C	NEMA 5-20R	CORD AND PLUG	25.0	
26.0	ESPRESSO MACHINE	SERVELINE	3536 VA	17.0 A	21.3 A	25 A	208 V	1	2#10.#10G, 1/2" C	BREAKER LOCK	DIRECT CONNECTION	PROVIDE BREAKER LOCK PER NEC 110.25	
27.0	ESPRESSO GRINDER	SERVELINE	600 VA	5.0 A	6.3 A	20 A	120 V	1	2#12.#12G, 1/2" C	NEMA 5-20R	CORD AND PLUG	27.0	
28.0	DRIP COFFEE BREWER	SERVELINE	4888 VA	23.5 A	29.4 A	30 A	208 V	1	2#10.#10G, 1/2" C	BREAKER LOCK	DIRECT CONNECTION	PROVIDE BREAKER LOCK PER NEC 110.25	

- NOTES:**
- COORDINATE ALL FINAL ELECTRICAL CONNECTIONS AND TYPES WITH FINAL EQUIPMENT PURCHASED AND PROVIDED.

SYSTEMS SHEET NOTES

- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING ALL ELECTRICAL ITEMS SHOWN ON THE DRAWINGS, EXCEPT ITEMS LISTED ON SHEET E0.01 GENERAL ELECTRICAL NOTES.
- ALL COMMUNICATIONS CABLES SHALL BE INSTALLED IN CONDUIT, CABLE TRAY, OR SUPPORTED BY CABLE HOOKS. PROVIDE BUSHINGS AT THE ENDS OF ALL CONDUIT WHERE STUBBED ABOVE ACCESSIBLE CEILING OR WHERE DROPPED INTO CABLE TRAY. PROVIDE CABLE HOOKS ABOVE ACCESSIBLE CEILING FOR CABLE INSTALLATION WHERE NOT INSTALLED IN CONDUIT OR CABLE TRAY.

POWER SHEET NOTES

- WHERE CONNECTED TO A 20A BRANCH CIRCUIT SUPPLYING AN INDIVIDUAL RECEPTACLE (SIMPLEX OR DUPLEX), THE RECEPTACLE SHALL BE RATED AT 20A.
- CIRCUIT WIRING IS NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
- CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATING, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
- PROVIDE HOUSEKEEPING PADS FOR ALL FLOOR MOUNTED AND GRADE MOUNTED ELECTRICAL EQUIPMENT. MINIMUM REQUIREMENTS: 4" HIGH 4x8 ENTRENCHED POLYFIBER REINFORCED CONCRETE, 4" WIDER AND 4" LONGER THAN EQUIPMENT TO BE PLACED ON IT. REFER TO ELECTRICAL DETAIL DRAWINGS FOR TRANSFORMER, GENERATOR, OR SWITCHGEAR PADS THAT MAY EXCEED THESE REQUIREMENTS.

KEYNOTES

- FIRE RETARDANT PLYWOOD BACKBOARD AND GROUND BAR FOR TELECOM RACK. PROVIDE 2" TO REAR OF BUILDING FOR TELECOM ENTRANCE. COORDINATE EXACT LOCATION OF RACK WITH OWNER PRIOR TO ROUGH-IN.
- EXISTING PANEL K1 TO BE RELOCATED TO THIS LOCATION. EXTEND ALL EXISTING CIRCUITS TO REMAIN TO NEW LOCATION.
- PROVIDE FIRE ALARM INTERFACE WITH KITCHEN HOOD. COORDINATE EXACT CONNECTION TYPE AND LOCATION WITH HOOD INSTALLER.
- CONNECTION FOR EXHAUST HOOD. COORDINATE EXACT LOCATION AND HEIGHT WITH HOOD INSTALLER PRIOR TO ROUGH-IN.
- POWER FOR EXTERIOR SIGNAGE ABOVE STOREFRONT. COORDINATE MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
- POWER FOR EXTERIOR SIGNAGE ABOVE DOOR. COORDINATE MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
- RECEPTACLE AND DATA FOR TYM/MAU BOARDS.
- RECEPTACLE IN FLOORBOX (4") WITH ONE DUPLEX RECEPTACLE FOR POWER TO TABLE.
- DUPLEX RECEPTACLE WITH (1) USB-A PORT AND (1) USB-C PORT.
- POWER FOR USBPOWER STRIP AT UNDERSIDE OF COUNTER. COORDINATE EXACT LOCATION WITH BAR INSTALLER PRIOR TO ROUGH-IN.

Existing Panel: K1

Location: BOH 116
Supply From: 600A FUSIBLE...
Mounting: SURFACE
Enclosure: TYPE 1

Volts: 208Y/120
Phases: 3
Wires: 4

A.I.C. Rating: 65,000
Mains Type: MLO
Mains Rating: 600 A
Ground Bus: Yes

Notes:

BL - PROVIDE BREAKER LOCK MEETING THE REQUIREMENTS OF NEC 110.25.
GFI - PROVIDE GROUND FAULT INTERRUPTING TYPE CIRCUIT BREAKER.

CCT	Circuit Description	Bkr Type	Rating	Poles	A	B	C	Poles	Rating	Bkr Type	Circuit Description	CCT
1	DINING ROOM LIGHTING	20 A	1	13	240			1	20 A		RCPT WOODSTONE FIRE DECK...	2
3	PREP AREA LIGHTING	20 A	1		289	0		1	20 A		SHUNT TRIP	4
5	TRACK LIGHTING	20 A	1				1350	432	1	20 A	#7 GRIDDLE & #8 FRIDGE BASE	6
7	WORK AREA LIGHTING	20 A	1	1303	0			1	20 A		SHUNT TRIP	8
9	RCPT DRYING TABLE	20 A	1		360	900		1	20 A		#6 - 5" PREP FRIDGE	10
11	WH-1	20 A	1				960	0	1	20 A	SHUNT TRIP	12
13	MEAT SLICER	20 A	1	420	180			1	20 A		RCPT OFFICE	14
15		20 A	1			696		1	20 A	BL	#23 - GARBAGE DISPOSAL	16
17	RCPT DINING ROOM	20 A	1				1080	900	1	20 A	#2 - STANDUP MERCHANDISER	18
19	KEF-1	30 A	1	1656	2226			2	30 A		GFI #4 - TOASTER CONVEYOR	20
21	KEF-2	20 A	1		1176	2226		1	20 A			22
23	KEF-3	20 A	1				1176	2444	2	30 A	BL #28 - DRIP COFFEE BREWER	24
25	HVG-1	15 A	1	864	2444			1	20 A		SPARE	26
27	SPARE	20 A	1		0	0		1	20 A		SPARE	28
29	DHP-1/DAH-1	35 A	2	1997	4476			2	60 A		AH-1	30
31		30 A	1					1	20 A		SPARE	32
33	DHP-2/DAH-2	40 A	2		2995	2662		2	50 A		HP-1	34
35		60 A	3		0	10450		3	100 A		PANEL K2	36
37												38
39	SPD, NOTE 1											40
41												42

Total Load: 26270 VA, 22538 VA, 29044 VA
Total Amps: 224 A, 188 A, 247 A

Notes:

- COORDINATE EXACT CIRCUIT BREAKER REQUIRED FOR SPD WITH MANUFACTURER.

Branch Panel: K2

Location: BOH 116
Supply From: K1
Mounting: RECESSED
Enclosure: TYPE 1

Volts: 208Y/120
Phases: 3
Wires: 4

A.I.C. Rating: 22,000
Mains Type: MLO
Mains Rating: 100 A
Ground Bus: Yes

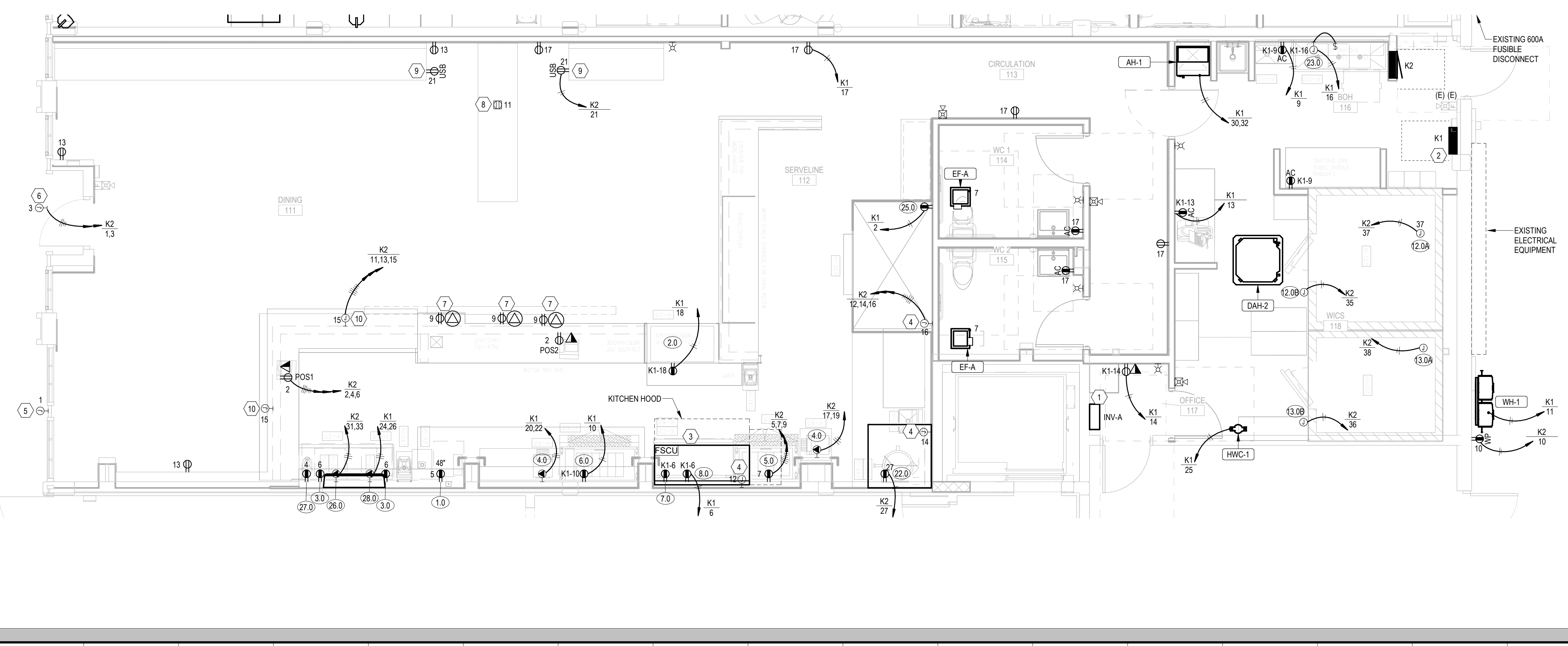
Notes:

BL - PROVIDE BREAKER LOCK MEETING THE REQUIREMENTS OF NEC 110.25.

CCT	Circuit Description	Bkr Type	Rating	Poles	A	B	C	Poles	Rating	Bkr Type	Circuit Description	CCT
1	SIGNAGE	20 A	1		1200	1440		1	20 A		RCPT - POS 1 & 2	2
3	SIGNAGE	20 A	1			1200	600		1	20 A	#27 - ESPRESSO GRINDER	4
5	#1 - ICE MACHINE	20 A	1				720	552	1	20 A	#3 - UIC FRIDGE (K2)	6
7	#5 - 3" PREP FRIDGE	20 A	1		276	540			1	20 A	RCPT - ROOFTOP	8
9	MENU BOARDS	20 A	1		1080	180			1	20 A	EXTERIOR RCPT	10
11	FLOOR RCPT	20 A	1				720	1200	1	20 A	EXHAUST HOOD	12
13	RCPT DINING 111	20 A	1		540	1200			1	20 A	EXHAUST HOOD	14
15	UIC POWER	20 A	1		1080	1200			1	20 A	EXHAUST HOOD	16
17		20 A	1				2226	--	1	--	SPACE	18
19	#4 - TOASTER CONVEYOR	30 A	2		2226	--			1	--	SPACE	20
21	RCPT DINING 111	20 A	1			1080	--		1	--	SPACE	22
23	SPARE	20 A	1				0	--	1	--	SPACE	24
25	SPARE	20 A	1		0	--			1	--	SPACE	26
27	#22 - STEAM KETTLE	20 A	1			252	901		1	--	SPACE	28
29	SHUNT TRIP	--	1						3	15 A	MAU-1	30
31		25 A	2		1768	901			1	--	SHUNT TRIP	32
33	#26 - ESPRESSO MACHINE	15 A	1			1768	--		1	15 A	#13.0A - WALK IN FREEZER...	34
35	#12.0A - WALK IN COOLER...	15 A	1		180	180			1	15 A	#13.0B - FREEZER EVAP. COIL	36
37	#12.0B - COOLER EVAP. COIL	15 A	1		180	180			2	20 A	#13.0C - WALK IN FREEZER...	38
39	#12.0C - WALK IN COOLER...	15 A	2			634	1258					40
41							634	1258				42

Total Load: 10450 VA, 11233 VA, 8571 VA
Total Amps: 89 A, 96 A, 71 A

Notes:



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JAMIE SCHROTBERGER
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Revisions

No	Date	Description

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POWER PLAN

Status: 100%
Date: FEBRUARY 20TH, 2023
Project No.: 2228.00
Drawing No.:

E201



1/4" = 1'-0"
POWER PLAN

3/10/2023 4:09:42 PM

Revisions

No	Date	Description

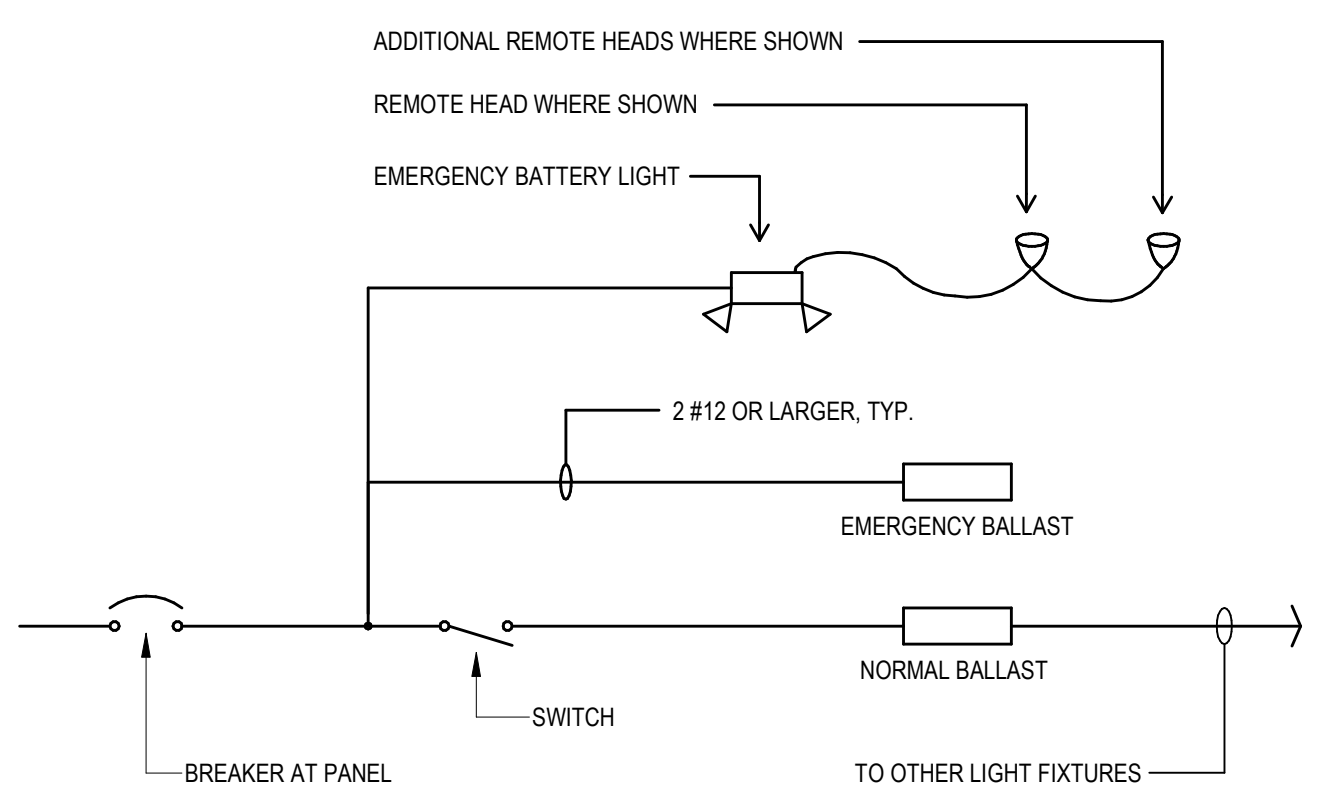
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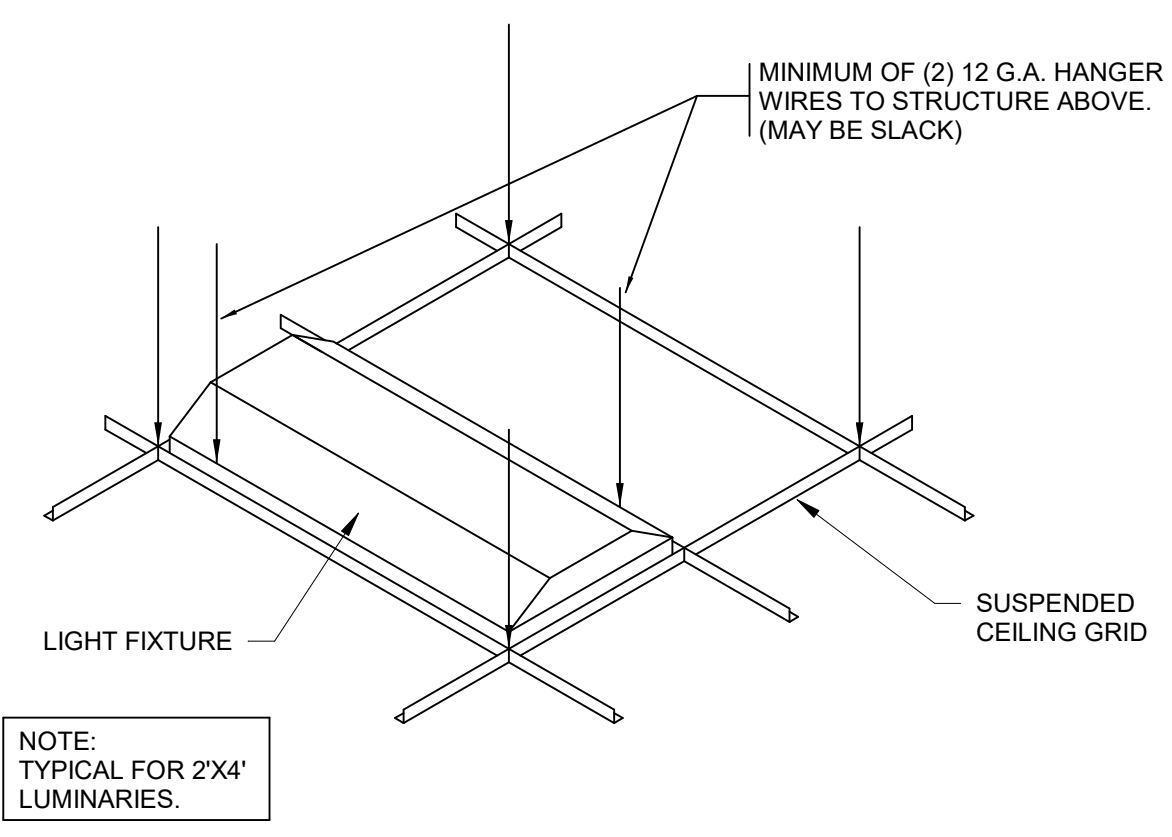
ELECTRICAL
DETAILS

Status	100%
Date	FEBRUARY 20TH, 2023
Project No.	2228.00
Drawing No.	E401

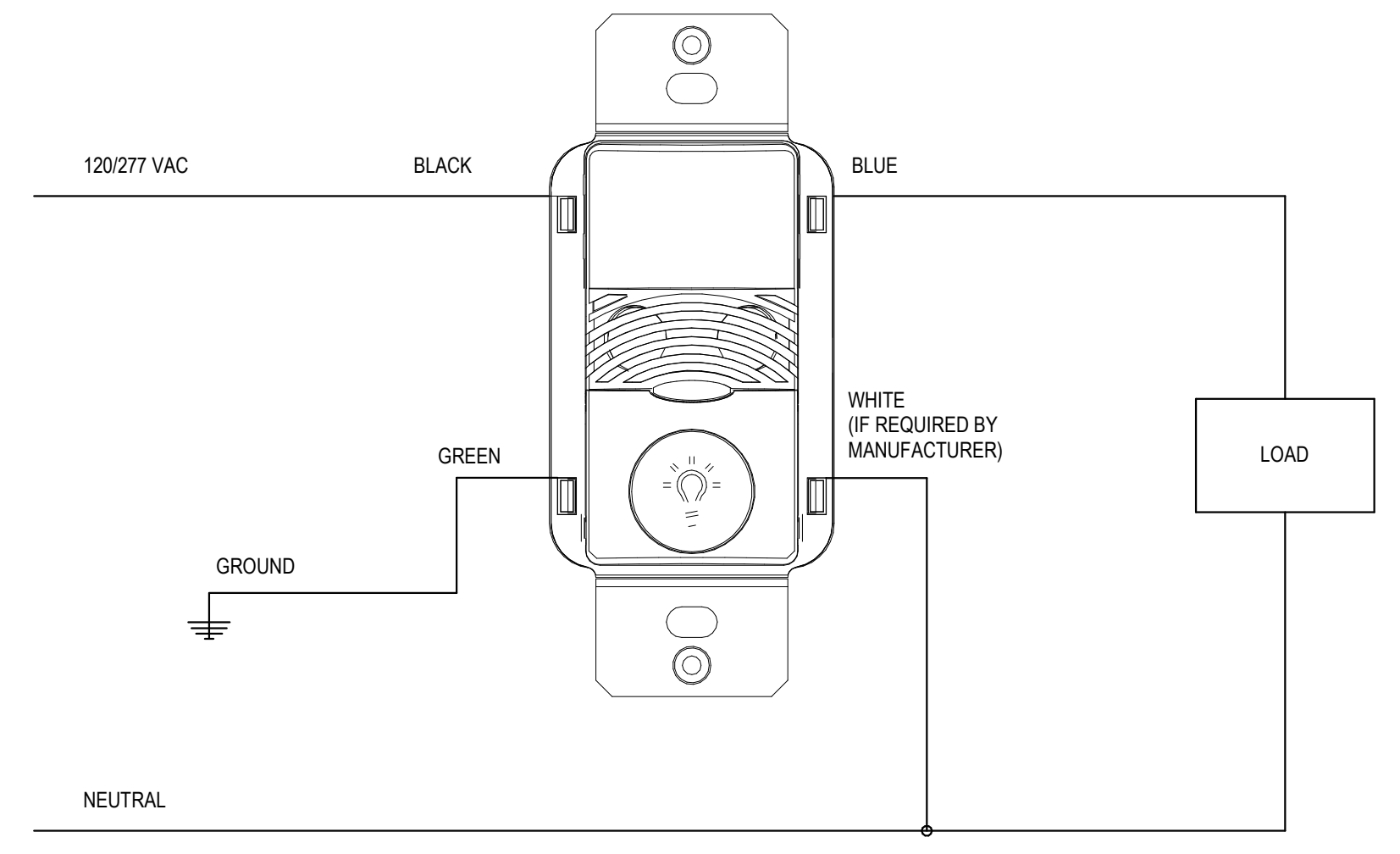
E401



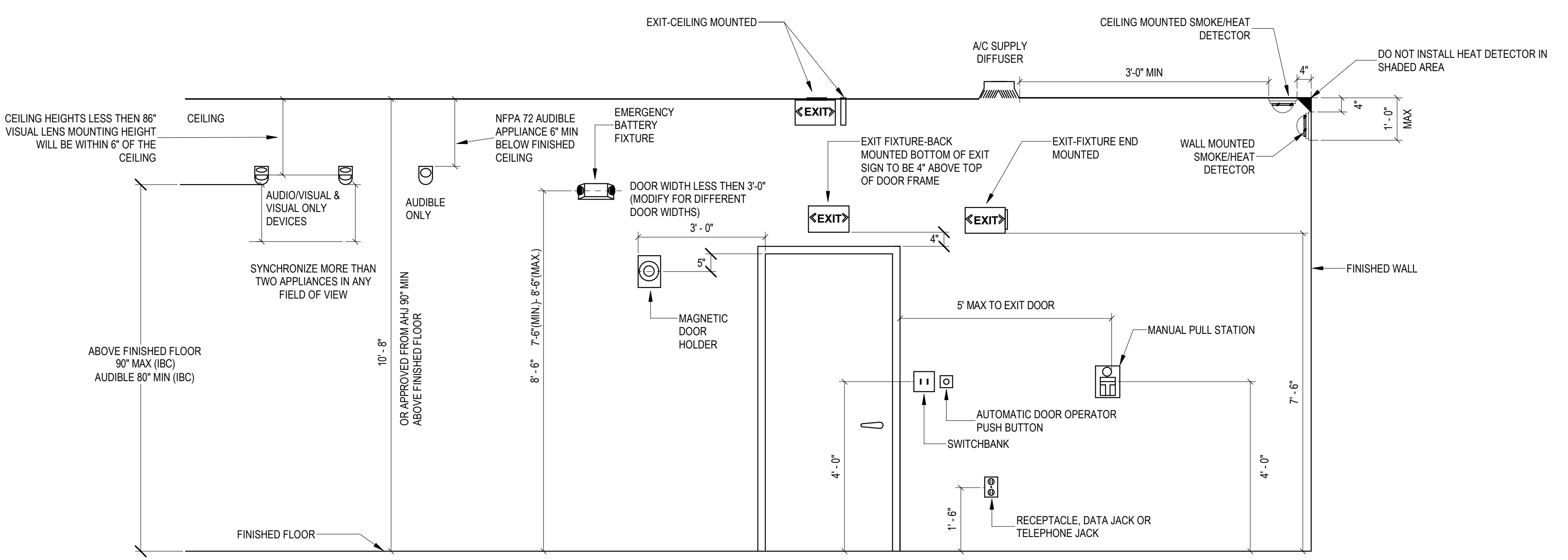
NOT TO SCALE
EMERGENCY LIGHTING WIRING DIAGRAM 2



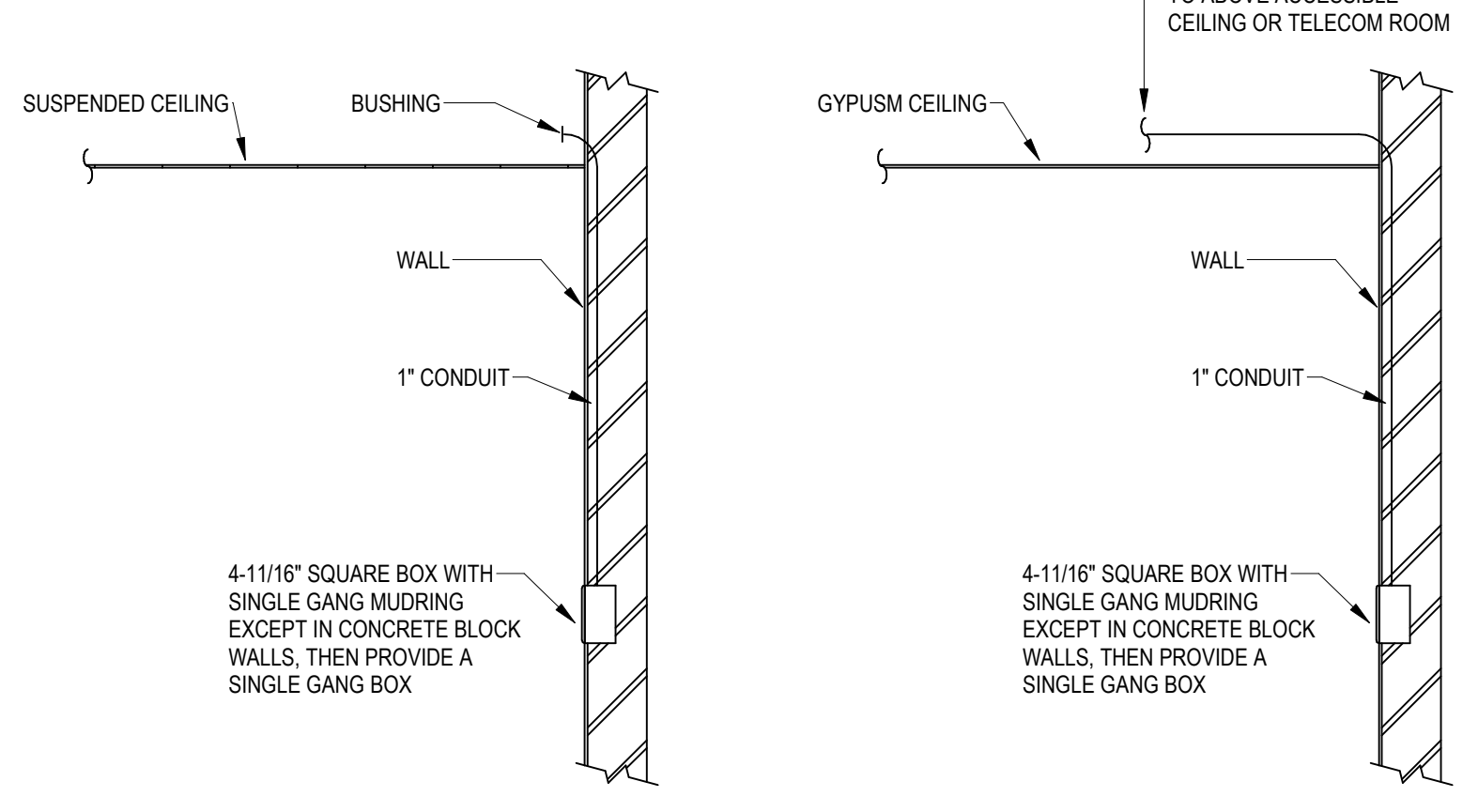
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LIGHT SUPPORT DETAIL 3



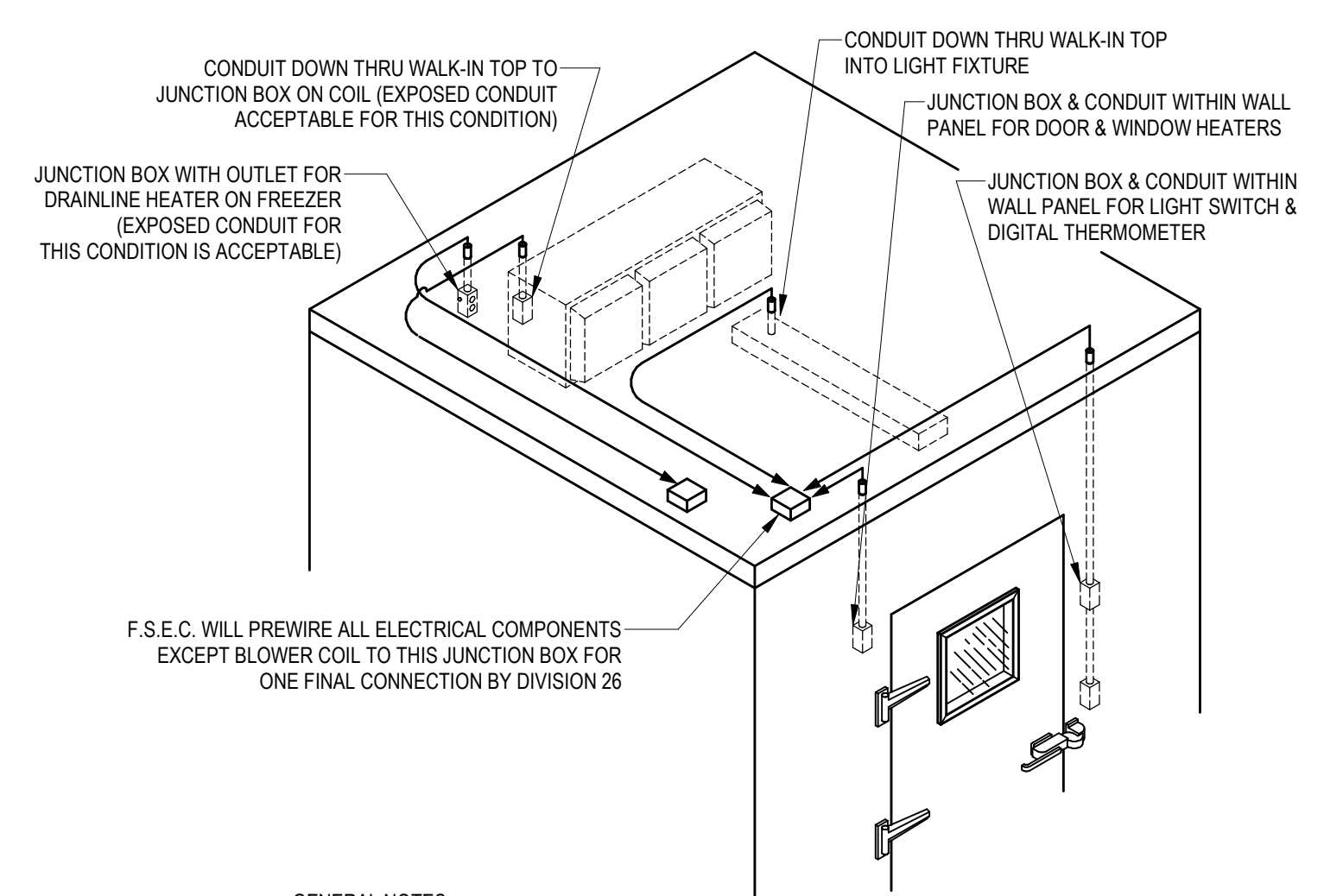
NOT TO SCALE
WALL MOUNTED OCCUPANCY/VACANCY SENSOR 3



NOT TO SCALE
TYPICAL MOUNTING HEIGHTS 4

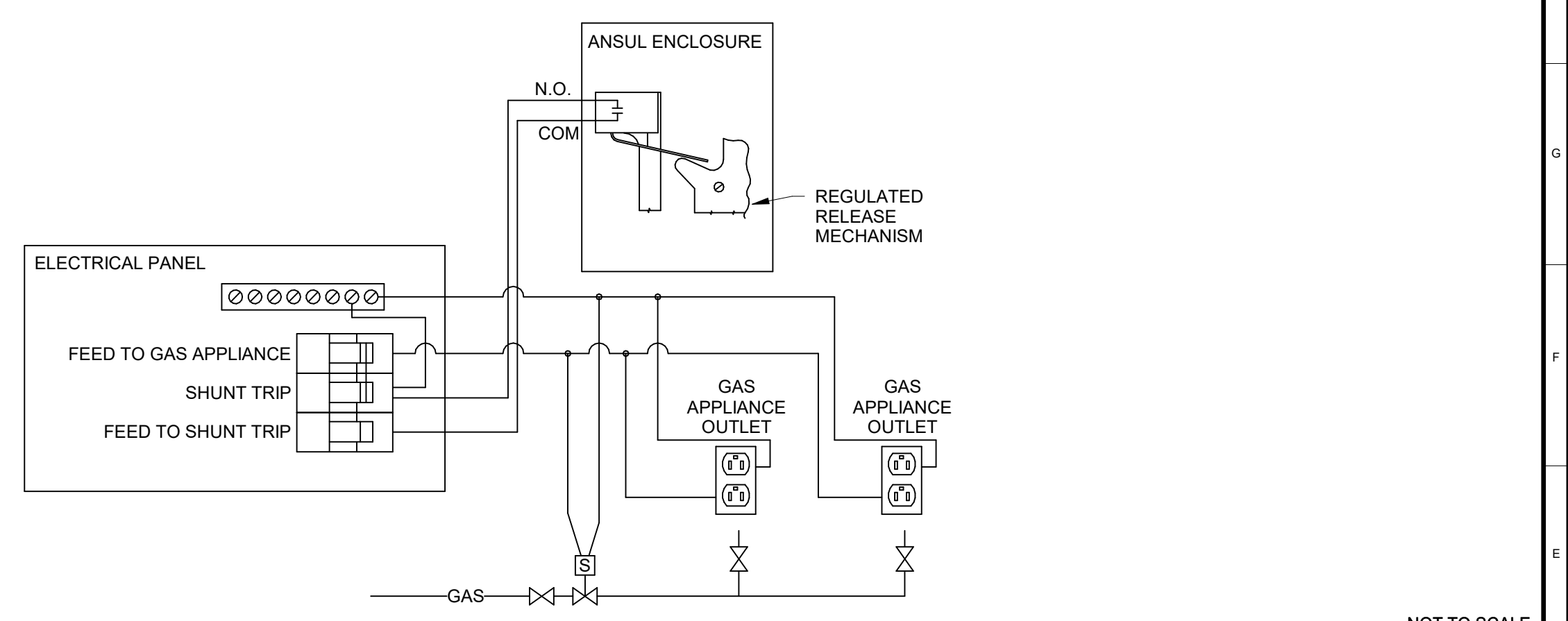


NOT TO SCALE
TELEPHONE/COMPUTER STUB UP DETAIL 5

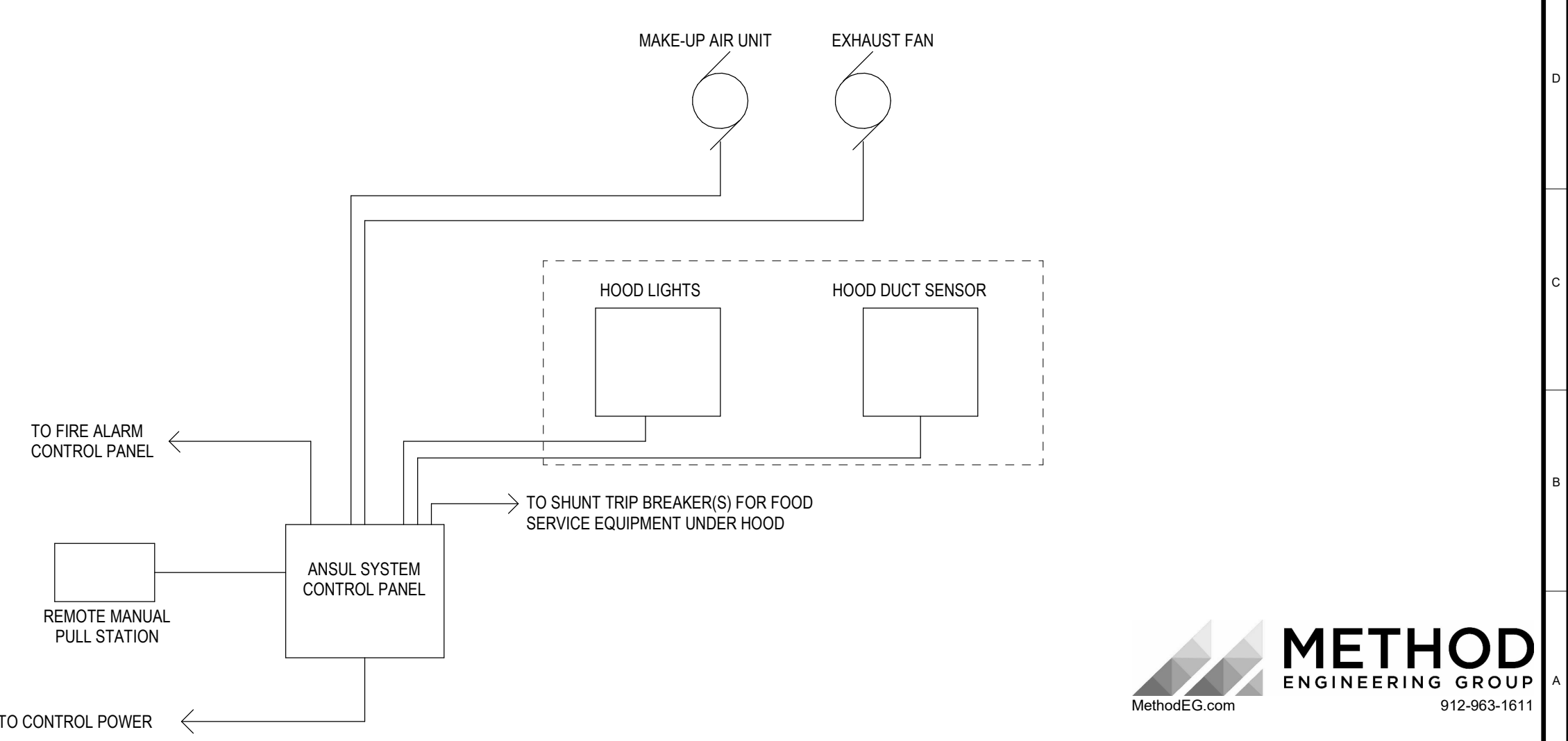


- GENERAL NOTES:
- IT IS THE RESPONSIBILITY OF THE F.S.E.C. TO FURNISH, INSTALL, AND INTERCONNECT CONDUIT AND WIRING FOR ELECTRICAL COMPONENTS INCLUDING LIGHTS, SWITCHES, THERMISTERS, DOOR WINDOW TO EASILY ACCESSIBLE JUNCTION BOX ON TOP OF WALK-IN FOR FINAL CONNECTION BY DIVISION 26.
 - ALL INTERCONNECTING CONDUIT RUN ABOVE WALK-IN PANELS OR WITHIN THE WALL PANELS - EXPOSED CONDUIT INSIDE WALK-IN WILL NOT BE ACCEPTABLE EXCEPT FOR THE CONDITIONS SHOWN AND NOTED IN THE ABOVE ILLUSTRATION.
 - SEAL PENETRATIONS THROUGH CEILING, WALLS, AND INSIDE ELECTRICAL CONDUIT OUTSIDE AND INSIDE WALK-IN WITH SILICONE GLAZING SEALANT.
 - PROVIDE HOLES FOR ELECTRICAL CONDUIT.
 - PROVIDE 1/2" PVC CONDUIT AT ALL PENETRATIONS THRU INSULATED PANELS.

NOT TO SCALE
WALK-IN REFRIGERATOR/FREEZER INSTALLATION DETAIL 6



NOT TO SCALE
SHUNT TRIP FOR GAS APPLIANCES UNDER KITCHEN HOOD 7



NOT TO SCALE
FOOD SERVICE HOOD - ANSUL SYSTEM CONTROL DETAIL 8